Centre No.					Pape	er Refer	ence			Surname	Initial(s)
Candidate No.			6	2	4	5	/	0	1	Signature	

Paper Reference(s)

### 6245/01

## **Edexcel GCE**

# **Chemistry**

## **Advanced**

Unit Test 5

(including synoptic assessment)

Thursday 23 June 2005 – Afternoon

Time: 1 hour 30 minutes

Materials required for examination	Items included with question papers
Nil	Nil

### **Instructions to Candidates**

In the boxes above, write your centre number and candidate number, your surname, initial(s) and signature.

Answer ALL the questions in the spaces provided in this question paper.

You may use a calculator. Show all the steps in any calculations and state the units.

#### **Information for Candidates**

The total mark for this paper is 75. The marks for individual questions and parts of questions are shown in round brackets: e.g. (2). There are 16 pages in this question paper. All blank pages are indicated.

A Periodic Table is printed on the back cover of this booklet.

#### **Advice to Candidates**

You are reminded of the importance of clear English and careful presentation in your answers. You will be assessed on your Quality of Written Communication in this paper.

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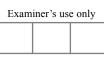
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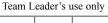


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Question Number

1

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### Answer ALL questions in the spaces provided.

- 1. (a) Pent-1-ene, CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CH=CH<sub>2</sub>, polymerises in a similar manner to ethene.
  - (i) Draw enough of the chain of poly(pent-1-ene) to make the structure of the polymer clear.

**(2)** 

(ii) Give the mechanism for the polymerisation of pent-1-ene, using a peroxide initiator RO-OR that produces RO· radicals. Show only the initiation and two propagation steps.

Include the use of an appropriate type of arrow to show the movement of an electron.

**(4)** 

	t-1-ene reacts with hydrogen bromide to give 2-bromopentane as the major duct.
(i)	Give the mechanism for this reaction.
	(3)
(ii)	By considering the nature of the intermediates in this reaction, explain why the major product is 2-bromopentane rather than 1-bromopentane.

	100	oduct mixture shows no optical activity.				
(i	i)	How would you test for optical activity?				
,.	•••					
(1		Explain, in terms of the reaction mechanism, why the product mixture does <b>not</b> show optical activity.				
		(3)				
		(Total 16 marks)				



$Fe^{2+} + 2e^{-} \rightleftharpoons Fe$ $E^{\bullet} = -0.44 \text{ V}$
Define the term <b>standard electrode potential</b> with reference to this electrod
Explain, with the aid of an equation, why the value of $E^{\Theta}$ suggests that iron vereact with an aqueous solution of an acid to give Fe <sup>2+</sup> ions and hydrogen gas
react with an aqueous solution of an acid to give re-
State why $E^{\bullet}$ values cannot predict that a reaction will occur, only that it possible.
·

(c)	Use the follow	ring standard electrode poueous solution.	tentials to explain why iron(III) iodide d	Leave blank
	not exist in aq	$Fe^{3+} + e^{-} \rightleftharpoons Fe^{2+}$	$E^{\Theta} = +0.77 \mathrm{V}$	
		$I_2 + 2e^- \rightleftharpoons 2I^-$	$E^{\circ} = +0.54 \mathrm{V}$	
				(2) Q2
			(Total 15 mar	·ks)

**3.** Consider the following reaction scheme:

(a) (i) State the catalyst that is needed for **Step 1**.

(1)

(ii) Suggest a synthetic pathway that would enable you to make ethanoyl chloride from ethanol in two steps. You should give reagents, conditions and the structure of the intermediate compound. Experimental details and balanced equations are **not** required.

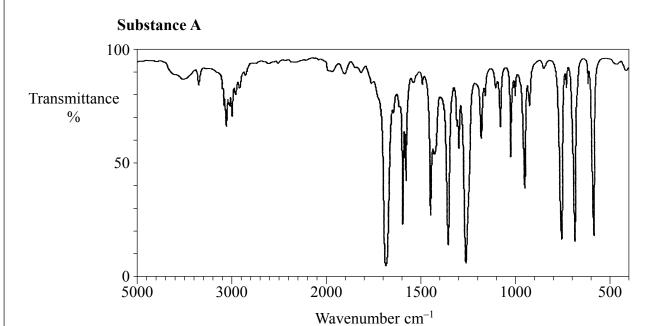
(4)

- (b) Give the reagents and conditions needed for:
  - (i) Step 2 .....

(ii) Step 3 .....

(3)

(c) The IR spectra for compounds  $\boldsymbol{A}$  and  $\boldsymbol{B}$  are shown.



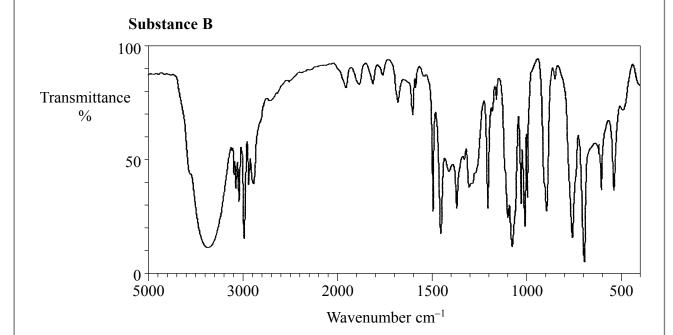


Table 1

Bond	Assignment	Wavenumber $/  cm^{-1}$
С—Н	Alkanes	2850–2950
С—п	Alkenes, arenes	3000–3100
Benzene ring	Arenes	1450–1650
C=O	Aldehydes, ketones, esters, carboxylic acids	1680–1750
	Free	3580–3670
О—Н	Hydrogen bonded in alcohols or phenols	3230–3550
	Hydrogen bonded in carboxylic acids	2500–3300

(i)	Using suitable data from Table 1, give evidence from the spectra which shows that compound <b>A</b> has been reduced. You will need to comment on both spectra.
	(3)
(ii)	Compound ${\bf B}$ is chiral. The IR spectra of the two optical isomers of ${\bf B}$ are identical. Suggest why this is so.
	(2)
Bot	h compounds A and B will react with iodine in sodium hydroxide solution to give
	ellow precipitate of triiodomethane (iodoform).
a ye	ellow precipitate of triiodomethane (iodoform). <b>B</b> is oxidised to <b>A</b> during the reaction. Suggest the identity of the oxidising
a ye (i)	B is oxidised to A during the reaction. Suggest the identity of the oxidising agent.
a ye (i)	B is oxidised to A during the reaction. Suggest the identity of the oxidising agent.  (1)
a ye (i)	B is oxidised to A during the reaction. Suggest the identity of the oxidising agent.  (1)
a ye (i)	B is oxidised to A during the reaction. Suggest the identity of the oxidising agent.  (1)  Give the equation for the reaction of A with iodine in sodium hydroxide.
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a ye (i) (ii)	B is oxidised to A during the reaction. Suggest the identity of the oxidising agent.  (1)  Give the equation for the reaction of A with iodine in sodium hydroxide.
a ye (i) (ii)	B is oxidised to A during the reaction. Suggest the identity of the oxidising agent.  (1)  Give the equation for the reaction of A with iodine in sodium hydroxide.
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a ye (i) (ii)	B is oxidised to A during the reaction. Suggest the identity of the oxidising agent.  (1)  Give the equation for the reaction of A with iodine in sodium hydroxide.

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	ne the terms  Overall order of reaction			
(1)	Overall order of reaction			
				(1)
(ii)	Rate constant			(-)
				(1)
(b) In a	kinetic study of the reacti	on		
	CH <sub>3</sub> I +	$OH^- \rightarrow CH_3OH + I^-$		
At a	certain temperature the fo	ollowing data were obtaine	ed:	
Experime		[OH <sup>-</sup> ] /mol dm <sup>-3</sup>	Initial rate /mol dm <sup>-3</sup> s <sup>-1</sup>	
1	0.1	0.1	$1 \times 10^{-5}$	
2	0.2	0.1	$2 \times 10^{-5}$	
3	0.1	0.2	$2 \times 10^{-5}$	
	State the order of reaction Give your reasons.	n with respect to CH <sub>3</sub> I an	d with respect to OH <sup>-</sup> io	ons.
				(2)
(ii)	Write the rate equation fo	r the reaction.		

(iii) Calculate the value of the rate constant for this reaction, stating its units.

Leave blank

**(2)** 

(c) The reaction

$$CH_3CH_2Br\ +\ OH^-\ \rightarrow\ CH_3CH_2OH\ +\ Br^-$$

has an  $S_{\rm N}2$  mechanism that proceeds through a transition state.

(i) Draw the mechanism, showing the structure of the transition state.

**(3)** 

(ii) Draw a reaction profile for this exothermic reaction. Show the energy level of the transition state on the profile.

**(2)** 

Q4

(Total 12 marks)

5.	(a)	Give the structural formula of the organic product when phenol is reacted with:	blank
		(i) sodium hydroxide solution	
		(ii) aqueous bromine	
		(iii) ethanoyl chloride.	
		(1)	

(i)	State the reagents and conditions needed to make benzenediazonium chloride from phenylamine.
	nom phonyminue.
	(3)
<i>(</i> ''')	
(11)	Write an equation, using structural formulae, to show the reaction between benzenediazonium ions and phenol to give the azo dye.
	(2)
(iii)	What condition is required for the reaction in (ii) above?
()	The condition to require the removal in (ii) woode.
	(1)
	(Total 9 marks)
	TOTAL FOR PAPER: 75 MARKS



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  | Caesium         Barium         Lanthanum         Hafnium         Tungsten         Rhenium         Osmium         Iridium         Platinum         Gold         Mercury         Thallium         Lead         Bismuth         Polonium         Astatine           223         226         227         74         75         76         77         78         79         80         81         85         85           Francium         Radium         Actinium         Actinium <td< td=""><td>CaesiumBariumLanthalumHafniumTungstenRheniumOsmiumIndiumIndiumPishumColdMercuryThalliumLeadBismuthPoloniumAstatine55565772747576777879808182838485FrRaActivitimFanciumRadiumActivitim</td><td>Caesium         Barium         Lanthanum         Hafnium         Tungsten         Rhenium         Osmium         Iridium         Platinum         Gold         Mercury         Thallium         Lead         Bismuth         Polonium         Astatine           55         56         57         74         75         76         77         78         79         80         81         82         83         84         85           223         226         227         227         228         226         227         228<!--</td--><td>Barium         Lanthanum         Hafnium         Transper         Rhenium         Osmium         Iridium         Platinum         Gold         Mercury         Thallium         Lead         Bismuth         Polonium         Astatine           35         37         72         73         74         75         76         77         78         79         80         81         82         83         84         85           36         37         36         36         36         36         36         81         85</td><td>  Lithium   Bacyllium   Bacyll</td><td>  The continual baconium   Pacinium   Pacini</td><td>  Handle High High High High High High High High</td><td>  Hydrogen</td><td>  1</td><td>  Hydrogen</td><td>  Hydrogen</td><td>  Hole mass g mol'   Symbol   Symbol   Moler mass g mol'   Symbol   Moler mass g mol'   Symbol   Moler mass g mol'   Symbol   Symbol   Moler mass g mol'   Symbol   Moler mass g mol'   Symbol   Symbol   Moler mass g mol'   Symbol   Symbol   Molec mass g mol'   Symbol   Molec mass g mol   Molec</td><td>  1   2   2   4   5   6   7   7   7   7   7   7   7   7   7</td><td>  1   2   3   4   5   6   7   7   1   1   1   1   1   1   1   1</td><td>  THE PERIODIC TABLE   THE PERIODIC TABLE   The properior   The periodic number   The pe</td><td>  THE PERIODIC TABLE   The proper   The prope   The proper   The prope   T</td><td>  The Periodic Table   The Per</td><td>  THE PERIODIC TABLE   The property of the pro</td><td>  THE PERIODIC TABLE   The property of the pro</td></td></td<>  | CaesiumBariumLanthalumHafniumTungstenRheniumOsmiumIndiumIndiumPishumColdMercuryThalliumLeadBismuthPoloniumAstatine55565772747576777879808182838485FrRaActivitimFanciumRadiumActivitim  
   
  | Caesium         Barium         Lanthanum         Hafnium         Tungsten         Rhenium         Osmium         Iridium         Platinum         Gold         Mercury         Thallium         Lead         Bismuth         Polonium         Astatine           55         56         57         74         75         76         77         78         79         80         81         82         83         84         85           223         226         227         227         228         226         227         228 </td <td>Barium         Lanthanum         Hafnium         Transper         Rhenium         Osmium         Iridium         Platinum         Gold         Mercury         Thallium         Lead         Bismuth         Polonium         Astatine           35         37         72         73         74         75         76         77         78         79         80         81         82         83         84         85           36         37         36         36         36         36         36         81         85</td> <td>  Lithium   Bacyllium   Bacyll</td> <td>  The continual baconium   Pacinium   Pacini</td> <td>  Handle High High High High High High High High</td> <td>  Hydrogen</td> <td>  1</td> <td>  Hydrogen</td> <td>  Hydrogen</td> <td>  Hole mass g mol'   Symbol   Symbol   Moler mass g mol'   Symbol   Moler mass g mol'   Symbol   Moler mass g mol'   Symbol   Symbol   Moler mass g mol'   Symbol   Moler mass g mol'   Symbol   Symbol   Moler mass g mol'   Symbol   Symbol   Molec mass g mol'   Symbol   Molec mass g mol   Molec</td> <td>  1   2   2   4   5   6   7   7   7   7   7   7   7   7   7</td> <td>  1   2   3   4   5   6   7   7   1   1   1   1   1   1   1   1</td> <td>  THE PERIODIC TABLE   THE PERIODIC TABLE   The properior   The periodic number   The pe</td> <td>  THE PERIODIC TABLE   The proper   The prope   The proper   The prope   T</td> <td>  The Periodic Table   The Per</td> <td>  THE PERIODIC TABLE   The property of the pro</td> <td>  THE PERIODIC TABLE   The property of the pro</td> | Barium         Lanthanum         Hafnium         Transper         Rhenium         Osmium         Iridium         Platinum         Gold         Mercury         Thallium         Lead         Bismuth         Polonium         Astatine           35         37         72         73         74         75         76         77         78         79         80         81         82         83         84         85           36         37         36         36         36         36         36         81         85  
   
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| Caesium         Barium         Tantalum         Tantalum         Tantalum         Training         Osmium         Indition         Platinum  
   | Caesium Barium Lanthanum Hafrium Tantalum Tungsten Rhenium Osmium Iridium Platinum Gold Mercury Thallium Lead Bismuth Polonium Astatine S5 56 56 227 72 72 88 84 85 84
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   | Caesium         Barium         Lanthanum         Tantalum         Tungsten         Rhenium         Iridium         Platinum         Gold         Mercury         Thallium         Lead         Bismuth         Polonium         Astatine           55         56         57         77         74         75         76         77         78         80         81         84         85           Francium         Radium         Actinium           87         88         89   
   
   
   | Caesium         Barium         Lanthauum         Harium         Tantalum         Tridium         Platinum   
   
  | Caesium         Barium         Landland         Tantalum         Tungsten         Rhenium         Indium         Platinum         Gold         Mercury         Thallium         Lead         Bismuth         Polonium         Astatine           55         56         55         56         227         72         74         75         76         77         78         79         80         81         84         85           Francium         Radium         Actinium   
   
   | Caesium         Barium         Lanthaum         Tantalum         Tungsten         Rherium         Osmium         Iridium         Platinum         Gold         Mercury         Thallium         Lead         Bismuth         Polonium         Astatine           55         56         57         72         73         74         75         76         77         78         79         81         82         83         84         85           223         226         227         72         81         82         83         84         85  
  | Caesium         Barium         Landranum         Hafnium         Translum         Translum         Osmium         Iridium         Platinum         Gold         Mercury         Thallium         Lead         Bismuth         Polonium         Astatine           23         35         35         35         37         74         75         76         77         78         80         81         82         83         84         85  
   
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   | The book of the control of the con   | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   
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| CS         Ba         La         Hf         Tantalum         Rhenium         OS         Ir         Pt         Au         Hg         Tl         Pb         Bissmuth         Polonium         Att           223         256         277         73         74         75         76         77         78         79         80         81         Bissmuth         Polonium         Assatine           223         226         227         73         74         75         76         80         81         83         84         85           Francium         Radium         Actinium         Actinium         Actinium         Actinium         144         144         147         150         152         157         159         163         167         169         173         175           Ce         Pr         Nd         Pm         Smartin         Function         Factinium  
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  | CS         Ba         La         Hf         Ta         W         Re         OS         Ir         Pt         Au         Hg         Tl         Pb         Bi         Po         At           Caesium         Barium         Lanthanum         Hafnium         Tantalum         Tungsten         Rhenium         Osmium         Iridium         Pintium         Gold         Mercury         Thallium         Lead         Bismuth         Polonium         Astatine           Fr         Ra         AC         77         76         77         78         80         81         83         84         85           Faracium         Radium         Actinium         Act  
   
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| CS   Ba  
  | CS   Ba   La   Hf   Ta   W   Re   OS   Ir   Pt   Au   Hg   Ti   Pb   Bi   Po   At  
   
   
  | CS   Ba   La   Hf   Ta   W   Re   OS   Ir   Pt   Au   Hg   Till   Pb   Bi   Po   At  
   
  | CS Ba La Hf Ta W Re OS Ir Au Hg Talium Lanthanum Hafnium Tungsten Rhenium Osmium Indium Indium Platinum Rodium Rodium Radium Rad   
   
  | 133   137   139   178   139   148   158   159  
   
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  | Lithium   Becyllium   Asperial marker   Atomic number   Atom   
   
  | Lithium   Beryllium   Beryll   | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   | Hydrogen   | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   | Hydrogen  
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  | 133   137   139   178   181   184   186   190   192   195   197   201   204   207   209   210
  210    
   
  | 133   137   139   178   181   184   186   190   192   195   197   201   204   207   209   210  
   
  | 131   137   139   178   181   184   186   190   192   195   197   201   204   207   209   210  
   
  | 133   137   139   178   181   184   186   190   192   195   197   201   204   207   209   210  
   
  | LS         Barum         Lanthanum         Haffilum         Tantalum         Rhenium         Osmium         Iridium         Platinum         Au         Hg         Thallium         Lead         Bismuth         Polonium         Astatine           223         226         227   
   
   | CS Ba La Hf Ta W Re OS Ir 77 178 Merium Lanthanum Hafnium Tantalum Tungsten Rhenium Osmium Iridium Platinum Gold Mercury Thallium Lead Bismuth Polonium Astatine Asta   
   | Lithium         Beryllium         Atomic number   
   
   | 1   12   14   15   14   15   15   14   15   15   | Hydrogen         Symbol           7         9           Lithium         Beg         Carbon         Carbon         Carbon         Carbon         Nitrogen         Covygen         Function of part of   | Hydrogen   | $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$  | 1   
  | Hydrogen   Symbol             | 1   2   2   4   5   6   7   7   4   4   5   6   7   7   4   4   5   6   7   7   4   4   5   6   7   7   4   4   5   6   7   7   4   4   5   6   7   7   4   4   5   6   7   7   4   7   7   7   7   7   7   7  | 1   2   2   3   4   5   6   7   1   1   1   2   3   4   5   6   7   1   1   1   2   3   4   5   6   7   1   1   1   1   1   1   1   1   1  | 1   2   3   4   5   6   7   7   7   7   7   7   7   7   7  | THE PERIODIC TABLE   The proper part of the prope   | THE PERIODIC TABLE   The periodic mumber     | THE PERIODIC TABLE   The periodic manifor   The periodic manifor   The periodic manifor   The posts   The periodic manifor   The posts   The periodic manifor    | THE PERIODIC TABLE   The periodic part   The   | THE PERIODIC TABLE   THE PER   |
| 37         38         39         40         41         42         43         46         47         48         49         50         51         52         53           133         137         139         178         181         184         186         190         192         197         201         204         207         209         210         210           CS         Bartium         Lantalum         Tungsten         Rhenium         Osmium         Iridium         Platitium         Gold         Mercury         Thillium         Lead         Bismuth         Polonium         Astatine           55         56         57         73         74         75         76         77         78         79         80         81         83         84         85           Francium         Actinium         Actinium         77         76         77         78         77         80         87         83         84         85           Francium         Actinium         87         88         89         14         14         14         14         14         14         14         14         14         14         14         150  
  | 37   38   39   40   41   42   43   44   45   46   47   48   49   50   51   52   53     133   137   139   178   181   184   186   190   192   195   197   201   204   207   209   210   210     CS   Ba   
   
   
  | 37         38         39         40         41         42         43         45         46         47         48         49         50         51         52         53           133         137         139         178         181         184         186         190         192         195         197         201         204         207         209         210         210           CS         Barium         Lambanum         Hafnium         Tamatum         Rhenium         Osmium         Iridium         Piatinum         Gold         Mercury         Thallium         Lead         Bismuth         Polonium         Astatine           55         56         57         74         75         76         77         78         79         80         80         81         Polonium         Astatine           Fr         Radium         Actinium   
   
  | 37         38         39         40         41         42         43         46         45         46         47         48         49         50         51         52         53           133         137         139         178         181         184         186         190         192         197         201         204         207         209         210         210           Cs         Marcun         Lanthanum         Hafnium         Tamatum         Rhenium         Osmium         Infinium         Platinum         Gold         Mecuny         Hag         Til         Ph         Bismut         Polonium         Astatine           223         226         227         7         7         7         7         7         7         8         8         8         8         8           Francium         Radium         Actinium         <   
   
  | 37         38         39         40         41         42         43         45         46         47         48         49         50         51         52         53           133         137         139         178         181         184         186         190         192         195         197         201         204         207         209         210         210           Caesium         Barium         Lamthanum         Tantalum         Tantalum         Name  
   
   | 37         38         39         40         41         42         43         45         46         47         48         49         50         51         52         53           133         137         139         178         181         184         186         190         192         195         197         201         204         207         209         210         210           Cs         Barium         Hafnium         Tantalum         Tantalum         Tantalum         Phatinum         Osmium         Iridium         Platinum         Osmium         Iridium         Platinum         Osmium         Astatine         Astatine         Astatine         Astatine         Astatine         89         83         84         85           223         226         227         22         73         74         77         78         79         80         81         83         84         85  
   
  | 37         38         39         40         41         42         43         45         46         47         48         49         50         51         52         53           133         137         139         178         181         184         186         190         192         195         197         201         204         207         209         210         210           CS         Barium         Hafrium         Tamalum         Tungsten         Rhenium         Rhenium         Indium         Indium         Platinum         Au         Hg         Hg         Hg         PD         Bismuth         Polonium         Astatine           55         56         57         73         74         75         76         77         78         79         80         81         82         83         84         85   
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| Rubicidum         Strontium         Virtium         Zirconium         Nobbium         Molybdenum         Technetium         Rubicidum         Silver         Cadmium         Tinn         Antimony         Tellurium         Iodine         Antimony         Antimony         Iodine         Antimony         Antimony         Antimony  
   | Rubicium         Strontium         Vitrium Strontium         Circonium Strontium         Niobium Molybdenum Technetium Ruthenium Ruthium Ruthenium Ruthium  
   
   | Rubicidum         Strontium         Yttrium         Zircontium         Victorium         Niobium         Rubicidum         Rubicidum         Silver         Cadmium         Indiam         Indiam         Palladium         Silver         Cadmium         Indiam         Palladium         Silver         Cadmium         Indiam         Palladium         Silver         Cadmium         Indiam         Palladium         Silver         44         45         46         47         48         49         50         51         52         53         53         53         53         54         52         53         53         54         52         53         53         54         54         54         44         50         50         51         52         53         53         54         44         50         50         51         50         51         50         51         50         51         50         51         50         51         51         50         51         50         51         51         50         41         50         41         41         42         42         42         42         42         42         42         42         42         42         42         42   
   
   
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  | Rubicium         Strontium         Vitrium         Zircontium         Vitrium         Zircontium         Niobium         Rubicium         Rubicium         Silver         Cadmium         Indiam         Indiam         Palladium         Silver         Cadmium         Indiam  
  | Rubicidum         Strontium         Yttrium         Zircontium         Vitrium Strontium         Niobium Molybdenum Technetium         Rubicidum         Palladium Palladium         Silver         Cadmium         Inditum         Antimony         Tellurium         Inditum         Inditum         Rubicidum         Palladium         Silver         Cadmium         Inditum         Palladium         Reheritum         Rubicidum         Reheritum         Rubicidum         Reheritum         Inditum         Inditum         Reheritum         Reheritum </td <td>Rubicium         Strontium         Vitrium         Zirconium         Vitrium         Displayedenum         Technetium         Rubicium         Rubicium         Silver         Cadmium         Indian         Indian         Pallacium         Rubicium         Rubicium</td> <td>Lithium Beryllium         Beryllium Beryllium         Atomic number         <t< td=""><td>  This continue   Training   Trai</td><td>Hydrogem           Symbol           Symbol           Aname           Aname           Lithium         Beryllium           3         4           23         24           Na         Mg           Sodium         Magnesium           11         12           12         44           Sodium         Magnesium           Sodium         Magnesium           K         Ca        
  11         12           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4</td><td>  Hydrogen   Symbol   Symbol  </td><td>  Handingeria</td><td>  Hydrogen     Hydrogen     Hydrogen     Symbol     Name     Lithium   Beryllium     Beryllium   Beryllium     Beryllium   Beryllium     Beryllium   Beryllium     Symbol     Symbol     Hydrogen   Symbol     Sodium   Magnesium     11</td><td>  Hydrogen</td><td>  1   2   2   4   5   6   7   7   7   7   7   7   7   7   7</td><td>  1   2   2   4   5   6   7   7   7   7   7   7   7   7   7</td><td>  1   2   2   4   5   6   7   7   7   7   7   7   7   7   7</td><td>  THE PERIODIC TABLE   The proper   The property   The property  </td><td>  1   2                                </td><td>  THE PERIODIC TABLE   The period of the per</td><td>  THE PERIODIC TABLE   The proper   The periodic mass gmoli   The peri</td><td>  1   2   3   4   5   6   7     1   1   2   4   5   6   7     1   1   2   4   5   6   7     1   2   7   7     2   4   5   6   7     3   4   5   7     4   5   6   7     5   6   7     5   7   7     5   7   7     6   7   7     7   7   7     7   7   7     7   7</td></t<></td>   | Rubicium         Strontium         Vitrium         Zirconium         Vitrium         Displayedenum         Technetium         Rubicium         Rubicium         Silver         Cadmium         Indian         Indian         Pallacium         Rubicium  
  | Lithium Beryllium         Beryllium Beryllium         Atomic number         Atomic number <t< td=""><td>  This continue   Training   Trai</td><td>Hydrogem           Symbol           Symbol           Aname           Aname           Lithium         Beryllium           3         4           23         24           Na         Mg           Sodium         Magnesium           11         12           12         44           Sodium         Magnesium           Sodium         Magnesium           K         Ca           11         12           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4</td><td>  Hydrogen   Symbol   Symbol  </td><td>  Handingeria</td><td>  Hydrogen     Hydrogen     Hydrogen     Symbol     Name     Lithium   Beryllium     Beryllium   Beryllium     Beryllium   Beryllium     Beryllium   Beryllium     Symbol     Symbol     Hydrogen   Symbol     Sodium   Magnesium     11</td><td>  Hydrogen</td><td>  1   2   2   4   5   6   7   7   7   7   7   7   7   7   7</td><td>  1   2   2   4   5   6   7   7   7   7   7   7   7   7   7</td><td>  1   2   2   4   5   6   7   7   7   7   7   7   7   7   7</td><td>  THE PERIODIC TABLE   The proper   The property   The property  </td><td>  1   2                                </td><td>  THE PERIODIC TABLE   The period of the per</td><td>  THE PERIODIC TABLE   The proper   The periodic mass gmoli   The peri</td><td>  1   2   3   4   5   6   7     1   1   2   4   5   6   7     1   1   2   4   5   6   7     1   2   7   7     2   4   5   6   7     3   4   5   7     4   5   6   7     5   6   7     5   7   7     5   7   7     6   7   7     7   7   7     7   7   7     7   7</td></t<>  
   | This continue   Training   Trai   | Hydrogem           Symbol           Symbol           Aname           Aname           Lithium         Beryllium           3         4           23         24           Na         Mg           Sodium         Magnesium           11         12           12         44           Sodium         Magnesium           Sodium         Magnesium           K         Ca           11         12           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4         45           4   | Hydrogen   Symbol             | Handingeria  | Hydrogen     Hydrogen     Hydrogen     Symbol     Name     Lithium   Beryllium     Beryllium   Beryllium     Beryllium   Beryllium     Beryllium   Beryllium     Symbol     Symbol     Hydrogen   Symbol     Sodium   Magnesium     11  
  | Hydrogen   | 1   2   2   4   5   6   7   7   7   7   7   7   7   7   7  | 1   2   2   4   5   6   7   7   7   7   7   7   7   7   7  | 1   2   2   4   5   6   7   7   7   7   7   7   7   7   7  | THE PERIODIC TABLE   The proper   The property  | 1   2  
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  | Lithium         Beryllium         Atomic number         Atomic number <td>  Table   Fig.   Fig.   Table   Table</td> <td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> <td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> <td>  Hydrogen</td> <td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td> <td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> <td>  1   2   2   4   5   6   7   7   7   7   7   7   7   7   7</td> <td>  1   2   2   4   5   6   7   7   7   7   7   7   7   7   7</td> <td>  The continuence   The companience   The companience   The continuence   The contin</td> <td>  THE PERIODIC TABLE   THE PER</td> <td>THE PERIODIC TABLE    Figure</td> <td>THE PERIODIC TABLE    1</td> <td>  The Periodic Table   The Periodic Mariana   The Mariana   The</td> <td>  The Periodic Table   The Periodic Figures   The Periodic Figures  </td>  
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 42         44         45         46         47         48         49         50         51         53         53           133         137         139         178         181         184         186         190         192         197         201         204         207         209         210         210           CS         Ba         La         Hf         Ta         W         Re         OS         Ir         Pt         Au         Hg         Tl         Pb         Bismuth         Poor         At           Cessium         Ss         56         27         76         77         78         79         80         81         82         83         84         85           Francium         Actinium         Actinium<td>Rb         Str         Y         Zr         Nb         Mo         Tc         Rub         And         Fabruar         Rub         And         Fabruar         Rub         And         Fabruar         Rub         And         Fabruar         And         <t< td=""><td>Rb         Str         Y         Ztr         Nb         Mo         Tc         Ru         Rb         Ag         Cd         In         Sn         Sp         Te         I           31         38         39         40         41         42         43         44         45         Cd         In         Antimony         Tellurium         Telluri</td><td>Rb         Str         Y         Zr         Nb         Mo         Tc         Ru         Rb         Ag         Cd         In         Sn         Sp         Te         I           37         38         39         40         41         42         43         46         47         48         49         50         51         52         53           133         137         139         178         181         184         186         190         192         197         201         204         207         209         510         210           CS         Ba         La         Hf         Ta         W         Re         OS         Ir         Pt         Au         Hg         Tl         Pt         At         Au         Hg         Tl         Pt         At         Au         Hg         Tl         Pt         Au         Hg         Tl         Pt         Au         Au         Hg         Br         Au         Au         Au         Br         Au         Au         Au         Br         Au         Br         Au         Br         Au         Br         Au         Br         Au         Br         Au</td><td>Rb         Str         Y         Ztr         Nb         Mo         Tc         Ru         Rb         Ag         Cd         In         Sn         Sn         Te         In         Silver         Cadmium         Tin         Antimony         Tellurium         Indimum         Rubidium         Silver         Cadmium         Indimum         Rubidium         Tin         Antimony         Tellurium         Indimum         Rellurium         Tin         Antimony         Tellurium         Indimum         Rubidium         Antimony         Tin         Antimony         Antimony     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     Hg         Tl         Pb         Bismuth         Poor         At           Cessium         Ss         56         27         76         77         78         79         80         81         82         83         84         85           Francium         Actinium         Actinium <td>Rb         Str         Y         Zr         Nb         Mo         Tc         Rub         And         Fabruar         Rub         And         Fabruar         Rub         And         Fabruar         Rub         And         Fabruar         And         <t< td=""><td>Rb         Str         Y         Ztr         Nb         Mo         Tc         Ru         Rb         Ag         Cd         In         Sn         Sp         Te         I           31         38         39         40         41         42         43         44         45         Cd         In         Antimony         Tellurium         Telluri</td><td>Rb         Str         Y         Zr         Nb         Mo         Tc         Ru         Rb         Ag         Cd         In         Sn         Sp         Te         I           37         38         39         40         41         42         43         46         47         48         49         50         51         52         53           133         137         139         178         181         184         186         190         192         197         201         204         207         209         510         210           CS         Ba         La         Hf         Ta         W         Re         OS         Ir         Pt         Au         Hg         Tl         Pt         At         Au         Hg         Tl         Pt         At         Au         Hg         Tl         Pt         Au         Hg         Tl         Pt         Au         Au         Hg         Br         Au         Au         Au         Br         Au         Au         Au         Br         Au         Br         Au         Br         Au         Br         Au         Br         Au         Br         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   | Rb         Str         Y         Zr         Nb         Mo         Tc         Ru         Rb         Ag         Cd         In         Sn         Sp         Te         I           37         38         39         40         41         42         43         46         47         48         49         50         51         52         53           133         137         139         178         181         184         186         190         192         197         201         204         207         209         510         210           CS         Ba         La         Hf         Ta         W         Re         OS         Ir         Pt         Au         Hg         Tl         Pt         At         Au         Hg         Tl         Pt         At         Au         Hg         Tl         Pt         Au         Hg         Tl         Pt         Au         Au         Hg         Br         Au         Au         Au         Br         Au         Au         Au         Br         Au         Br         Au         Br         Au         Br         Au         Br         Au         Br         Au   
   
   | Rb         Str         Y         Ztr         Nb         Mo         Tc         Ru         Rb         Ag         Cd         In         Sn         Sn         Te         In         Silver         Cadmium         Tin         Antimony         Tellurium         Indimum         Rubidium         Silver         Cadmium         Indimum         Rubidium         Tin         Antimony         Tellurium         Indimum         Rellurium         Tin         Antimony         Tellurium         Indimum         Rubidium         Antimony         Tin         Antimony         Antimony         <   
   
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  | Rb         Sr         Y         Zr         Nb         Mo         TC         Ru         Rh         Pd         Ag         Cd         In         Sn         122         127           Rbbidium         Strontium         Yttrium         Zircontium         Xircontium         Sircontium         Sircontiu   
   
  | Rb         ST         Y         ZT         Nb         Mo         TC         Ru         Rh         Pd         Ag         Cd         In         Sn         122         127           Rubidium         Strontium         Yttrium         Zircontium         Nichbram         Molydenum         Technetium         Rubidium         Silver         Cadmium         Tin         Sn         79         Tin         Ag         Cd         In         Sn         79         Tin         Ag         Tin         Antimony         Tellurium         Iodine         In         Ag         Ag         Ag         Ag         Ag         Tin         Ag         Tin         Ag         Tin         Ag         Ag         Ag         Ag         Ag         Tin         Ag         Tin         Ag         Ag         Ag         Ag         Ag         Ag         Tin         Ag         Tin         Ag   
   
  | Rb         Sr         Y         Zr         Nb         Mo         TC         Ru         Rh         Pd         Ag         Cd         In         Sn         122         127           Rbdidium         Strontium         Yttrium         Zirconium         Niobium         Molydenum         Technetium         Rhodium         Fandium         Silver         Cadmium         Tin         Sn         Technetium         Rhodium         Tin         Technetium         Rhodium         Tin         Technetium         Rhodium         Tin         Technetium         Technetium         Rhodium         Tin         Technetium         Sn         Technetium         Sn         Technetium         Tin         Technetium         Technetium <td>Rb         ST         Y         ZT         Nb         Mo         TC         Ru         Rh         Pd         Ag         Cd         In         Sn         122         127         128         127         127         127         127         128         127         127         128         128         127         128         128         128         1</td> <td>Rb         St         Y         Zt         Nb         Mo         TC         Rubidium         Rubidium         Silver         Cadmium         Silver         Cadmium         Silver         Total Indiam         Time         Time<td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td>  The continuous of the contin</td><td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td>  1</td><td>  1   2   2   4   5   6   7   7   4   4   5   6   7   7   4   4   5   6   7   7   4   4   5   6   7   7   4   4   5   6   7   7   7   7   7   7   7   7   7</td><td>  1   2   2   4   5   6   7   7   7   7   7   7   7   7   7</td><td>  1   2   2   3   4   5   6   7   7   7   7   7   7   7   7   7</td><td>  THE PERIODIC TABLE   THE PERIODIC TABLE   The periodic number   THE PERIODIC TABLE   The periodic number   THE PERIODIC TABLE   The periodic number   Th</td><td>THE PERIODIC TABLE    1</td><td>  THE PERIODIC TABLE   The proper continue of the proper continue of</td><td>  THE PERIODIC TABLE   The proper   The periodic part   The period</td><td>  THE PERIODIC TABLE   The proper   The periodic part   The period</td></td>   
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   | Rb         St         Y         Zt         Nb         Mo         TC         Rubidium         Rubidium         Silver         Cadmium         Silver         Cadmium         Silver         Total Indiam         Time         Time <td><math display="block">
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| Rb         Sr         99         91         95         99         101         103         106         108         112         113         113         122         128         127           Rb         Sr         Y         Zr         Nb bium         Mobium         To bium         Rehodium         Rehodium <td>  Rubidium   Strontium   Vitrium   Zirconium   Nicobium   Nicobium   Nicobium   Rubidium   Strontium   Strontium   Vitrium   Zirconium   Nicobium   Nicobium   Rubidium   Rubidium   Strontium   Strontium   Strontium   Vitrium   Zirconium   Nicobium   Nicobium   Rubidium   Rubidium   Rubidium   Strontium   Strontium   Vitrium   Zirconium   Nicobium   Nicobium   Rubidium   R</td> <td>Rb         Sr         Y         Zr         Nb         Mo         Tc         Rub         Ag         Cd         In         112         113         119         122         128         127           Rb         Sr         Y         Zr         Nb         Mo         Tc         Ru         Rh         Pd         Ag         Cd         In         Sh         Tc         In           37         38         39         40         41         42         43         44         45         46         47         48         49         50         51         75         30         50         51         53         53         44         45         46         47         48         49         50         51         53         53         53         50         51         50         51         50         51         50         51         50         51         50         51         50         51         50         51         50         51         50         51         50         51         50         51         50         51         50         51         50         51         50         51         50         51</td> <td>85         88         89         91         93         96         99         101         103         106         108         112         115         119         122         128         127           Rubidium         Strontium         Yttrium         Zircontium         Niobium         Molydenum         Technetium         Rubidium         Palladium         Silver         Cadmium         Infilm         Transmit         Transmit         Rubidium         Palladium         Palladium</td> <td>Rb         Sr         89         91         93         96         99         101         103         106         108         112         115         119         122         128         127           Rubidium         Strontium         Yttrium         Zirconium         Niobium         Molydeanum Technetium         Ruthenium         Rhodium         Plan         Ag         Cd         In         Sn         70         70         197         201         204         207         204         107         107         107         107         107         107         107         204         207         209         210         210         204         207         209         210         204         207         204         207         209         210         204         207         209         210         204         207         209         210         204         207         209         210         204         At           Caesium         Barium         Handum         Tantalum         Tantalum         Tantalum         At         A</td> <td>85         88         89         91         93         96         99         101         103         106         108         115         115         119         122         128         127           Rubfidum<br/>31         Strontium<br/>31         Ytrium<br/>31         Zirconium<br/>41         Molydenum<br/>42         Technetium<br/>43         Rubfidum<br>44         Rhodium<br>47         Pad<br/>48         Ag<br/>47         Cd<br/>48         Ind<br/>47         Antimony<br/>47         Tellurium<br/>48         Pad<br/>47         Ag<br/>47         Ag<br/>49         Ag<br/>50         Ag<br/>50         Ag<br/>50         Ag<br/>50         Ag<br/>51         Ag<br/>50         Ag<br/>51         Ag<br/>51         Ag<br/>51         Ag<br/>50         Ag<br/>51         Ag<br/>51         Ag<br/>50         Ag<br/>51         Ag<br/>50         Ag<br/>51         Ag<br/>50         Ag<br/>51         Ag<br/>50         Ag<br/>51         Ag<br/>50         Ag<br/>50         Ag<br/>51         Ag<br/>50         Ag<br/>51         Ag<br/>50         Ag<br/>51         Ag<br/>50</br></br></td> <td>85         88         89         91         93         96         99         101         103         106         108         115         115         119         122         128         127           Rbb didum         Str         Y         Zr         Nb         Mo         Tc         Ru         Rh         Pd         Ag         Cd         In         Sn         Tn         Antimon         Tellurium         Indition           37         38         40         41         42         44         45         46         47         48         49         50         51         52         53           133         137         139         178         181         184         186         190         192         195         197         201         204         207         209         210         210           CS         Ba         La         Hf         Ta         W         Re         OS         Ir         Au         Hg         Tl         Ph         Au         Au         Au         Bismuth         Polonium         Assatine           S5         55         57         73         76         77         78</td> <td>Linkium         Beryllium         Atomic number         Atomic number<td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td>  Hydrogen</td><td></td><td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td>  Hydrogan   Hydrogan mass g mol<sup>-1</sup>     Hydrogan   Hydrogan     Hydrogan   Hydrogan     Hydrogan   Hydrogan  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   | Rubidium   Strontium   Vitrium   Zirconium   Nicobium   Nicobium   Nicobium   Rubidium   Strontium   Strontium   Vitrium   Zirconium   Nicobium   Nicobium   Rubidium   Rubidium   Strontium   Strontium   Strontium   Vitrium   Zirconium   Nicobium   Nicobium   Rubidium   Rubidium   Rubidium   Strontium   Strontium   Vitrium   Zirconium   Nicobium   Nicobium   Rubidium   R  
   
   | Rb         Sr         Y         Zr         Nb         Mo         Tc         Rub         Ag         Cd         In         112         113         119         122         128         127           Rb         Sr         Y         Zr         Nb         Mo         Tc         Ru         Rh         Pd         Ag         Cd         In         Sh         Tc         In           37         38         39         40         41         42         43         44         45         46         47         48         49         50         51         75         30         50         51         53         53         44         45         46         47         48         49         50         51         53         53         53         50         51         50         51         50         51         50         51         50         51         50         51         50         51         50         51         50         51         50         51         50         51         50         51         50         51         50         51         50         51         50         51         50         51   
   
   | 85         88         89         91         93         96         99         101         103         106         108         112         115         119         122         128         127           Rubidium         Strontium         Yttrium         Zircontium         Niobium         Molydenum         Technetium         Rubidium         Palladium         Silver         Cadmium         Infilm         Transmit         Transmit         Rubidium         Palladium   
   
   | Rb         Sr         89         91         93         96         99         101         103         106         108         112         115         119         122         128         127           Rubidium         Strontium         Yttrium         Zirconium         Niobium         Molydeanum Technetium         Ruthenium         Rhodium         Plan         Ag         Cd         In         Sn         70         70         197         201         204         207         204         107         107         107         107         107         107         107         204         207         209         210         210         204         207         209         210         204         207         204         207         209         210         204         207         209         210         204         207         209         210         204         207         209         210         204         At           Caesium         Barium         Handum         Tantalum         Tantalum         Tantalum         At         A   
   
   | 85         88         89         91         93         96         99         101         103         106         108         115         115         119         122         128         127           Rubfidum<br>31         Strontium<br>31         Ytrium<br>31         Zirconium<br>41         Molydenum<br>42         Technetium<br>43         Rubfidum<br>  
   
  | 85         88         89         91         93         96         99         101         103         106         108         115         115         119         122         128         127           Rbb didum         Str         Y         Zr         Nb         Mo         Tc         Ru         Rh         Pd         Ag         Cd         In         Sn         Tn         Antimon         Tellurium         Indition           37         38         40         41         42         44         45         46         47         48         49         50         51         52         53           133         137         139         178         181         184         186         190         192         195         197         201         204         207         209         210         210           CS         Ba         La         Hf         Ta         W         Re         OS         Ir         Au         Hg         Tl         Ph         Au         Au         Au         Bismuth         Polonium         Assatine           S5         55         57         73         76         77         78   
   | Linkium         Beryllium         Atomic number         Atomic number <td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> <td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> <td>  Hydrogen</td> <td></td> <td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> <td>  Hydrogan   Hydrogan mass g mol<sup>-1</sup>     Hydrogan   Hydrogan     Hydrogan   Hydrogan     Hydrogan   Hydrogan     Litiniam   Bacyllium     Litiniam   Bacyllium   Litiniam   Litiniam   Litiniam     Litiniam   Litiniam   Litiniam     Litiniam   Litiniam   Litiniam   Litiniam     Litiniam   Litiniam   Litiniam   Litiniam   Litiniam     Litiniam   Litiniam   Litiniam   Litiniam   Litiniam   Litiniam   Litiniam     Litiniam   Lit</td> <td>  1   2   3   4   5   6   7   7   7   7   7   7   7   7   7</td> <td>  1   2   2   4   5   6   7   7   1   1   1   2   4   5   6   7   7   1   1   2   4   5   6   7   7   1   1   2   4   5   6   7   7   1   1   2   4   5   6   7   7   1   1   2   4   7   7   8   1   1   1   1   1   1   1   1   1</td> <td>  1   2   2   3   4   5   6   7   7   7   7   7   7   7   7   7</td> <td></td> <td>THE PERIODIC TABLE    1</td> <td>  THE PERIODIC TABLE   The property of the pro</td> <td>THE PERIODIC TABLE    1</td> <td>THE PERIODIC TABLE    1</td>   
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  | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   | Hydrogen   |  | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   | Hydrogan   Hydrogan mass g mol <sup>-1</sup>     Hydrogan   Hydrogan     Hydrogan   Hydrogan     Hydrogan   Hydrogan     Litiniam   Bacyllium     Litiniam   Bacyllium   Litiniam   Litiniam   Litiniam     Litiniam   Litiniam   Litiniam     Litiniam   Litiniam   Litiniam   Litiniam     Litiniam   Litiniam   Litiniam   Litiniam   Litiniam     Litiniam   Litiniam   Litiniam   Litiniam   Litiniam   Litiniam   Litiniam     Litiniam   Lit | 1   2   3   4   5   6   7   7   7   7   7   7   7   7   7   
  | 1   2   2   4   5   6   7   7   1   1   1   2   4   5   6   7   7   1   1   2   4   5   6   7   7   1   1   2   4   5   6   7   7   1   1   2   4   5   6   7   7   1   1   2   4   7   7   8   1   1   1   1   1   1   1   1   1  | 1   2   2   3   4   5   6   7   7   7   7   7   7   7   7   7  |  | THE PERIODIC TABLE    1   
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| 19   20   21   22   23   24   25   26   27   28   29   30   31   32   34   35   35   34   35   35   35   35  
  | 19   20   21   22   23   24   25   26   27   28   29   30   31   32   33   34   35   35   35   35   35   35  
   
   
  | RAbbidium         STATE         AT   
   
  | 19         20         21         22         24         25         26         27         28         29         30         31         32         34         35           Rb         Rb         35         96         99         101         103         106         112         113         113         112         113         113         112         113         114         112         115  
   
  | 19         20         21         22         24         25         26         27         28         30         31         32         33         34         35           Rb         Sb         88         89         91         93         96         99         101         103         106         112         115         115         115         112         122         136         127           Rbbdium         Strontium         Yttrium         Zirconium         Niobium         Molydenum Technetium         Rbdium         Rbdium         All  
   
  | 19         20         21         22         24         25         26         27         28         30         31         32         33         34         35           Rb         Rb         32         36         39         101         103         106         112         115         119         122         138         35           Rb         Sp         39         40         TC         Rb         Rb         Rb         Rb         Rb         Ac         <  
   
  | 19         20         21         22         24         25         26         27         28         30         31         32         33         34         35           Rb         St         88         89         91         95         99         101         103         106         112         115         115         119         122         128         127           Rb         St         St         40         Ac         Ac         Ac         Ac         Int         Int         Sn         Tellurium         Intitum         Intitum         Molydenum Technetium         Rubidium         Rubidium         Silver         Cadmium         Intitum         Antimony         Tellurium         Intitum         Intitum         Antimony         Tellurium         Intitum         Intitum         Antimony         Tellurium         Intitum         Intitum         Antimony         Tellurium         Intitum         Antimony         Intitum         Intitum         Intitum         Antimony         Intitum         Intitum         Intitum         Intitum         Intitum         Intitum         Antimony         Intitum         Intitum         Intitum         Intitum         Intitum         Intitum         Intitum         Intitum  
   | Lithium         Beylium         Atomic number   
   
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  | 1   2   4   5   6   7   7   7   7   7   7   7   7   7  | 1   2   2   4   5   6   7   7   7   7   7   7   7   7   7  | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   | THE PERIODIC TABLE   The proper   The periodic trable   The periodic trape   The periodic t   | THE PERIODIC TABLE    1  | THE PERIODIC TABLE    1  
   | THE PERIODIC TABLE   THE PERIODIC TABLE   The part of the part o   | THE PERIODIC TABLE    1  |
| Professional Carcinam Scandinam Carcinam Scandinam Carcinam Carc   
  | Probassium   Carolium   Varioum  
   
  | Poblitical substitution         Accordant (a) continue and another case)         Accordant (a) continue another case)         Acco   
   
   | Fodassum         Cascium         Anadaum         Choosit         Coosit         Opport         Condition         Opport         Opport         Opport         Condition         Opport  
   
   | Potassium         Cardinum         Standoum         Itaniuum         Volgasium         Cooper         Locati         Nocer         Copper         Line         Cardinum         Arsenium         Arseni   
   
   | Polizissium         Cardinum         Scandium         Itanium         Anaganese         Iron         Coosit         Inchesis         Copper         Consist         Cardinum         Consistent         Argentary (apper)         Consistent         Argentary (apper)         Consistent         Argentary (apper)         Consistent         Argentary (apper)         Argentary (apper) <td>Polassium         Sandium         Itanium         Anaganese         Itanium         Itanium         Anaganese         Itanium         Anaganese         Itanium         Anaganese         Itanium         Itanium         Anaganese         Itanium         Itanium         Itanium         Itanium         I</td> <td>  Lithium Beryllium</td> <td>  The control of the</td> <td>  Hydrogen</td> <td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> <td>  Hande   Hand</td> <td>  1   Hydrogen</td> <td>  1   1   12   14   15   15   15   15   15   15   15</td> <td>  1   2   4   5   6   7   7   7   7   7   7   7   7   7</td> <td>  1   2   3   4   5   6   7     1   1   2  </td> <td>  The control of the</td> <td></td> <td>THE PERIODIC TABLE    1</td> <td>  THE PERIODIC TABLE   The periodic mass grad   Hydrogen   The periodic mass grad   The periodic mass gra</td> <td>THE PERIODIC TABLE    1</td> <td>  THE PERIODIC TABLE   The period of the property of the period of the p</td>  
   | Polassium         Sandium         Itanium         Anaganese         Itanium         Itanium         Anaganese         Itanium         Anaganese         Itanium         Anaganese         Itanium         Itanium         Anaganese         Itanium         Itanium         Itanium         Itanium         I   
  | Lithium Beryllium  
   
  | The control of the    | Hydrogen   | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   | Hande   Hand | 1   Hydrogen  
  | 1   1   12   14   15   15   15   15   15   15   15   | 1   2   4   5   6   7   7   7   7   7   7   7   7   7  | 1   2   3   4   5   6   7     1   1   2  | The control of the  |  | THE PERIODIC TABLE    1  
   | THE PERIODIC TABLE   The periodic mass grad   Hydrogen   The periodic mass grad   The periodic mass gra   | THE PERIODIC TABLE    1  | THE PERIODIC TABLE   The period of the property of the period of the p   |
| Potessium   Calcium   Scandium   Vanadium  
  | Potassium   Calcium   Sandium   Titanium   Mangianese   Iron   Cobalt   Nickel   Copper   Zinc   Callium   Galtium   Galtium   Calcium   
   
  | Potassium         Calcium         Scandium         Trianium         Vanadium         Chronium         Anadium         Chronium         Anadium         Trianium         Vanadium         Trianium         Vanadium         Cobat         100         103         106         106         106         107         110         112         113         113         113         114         115 </td <td>Potassium         Calcium         Scandium         Titanium         Vanadium         Chronium         Anaganese         Iron         Cobat         Nicket         Copper         Zinc         Callium         Gallium         Greenium         Arsenic         Selenium         Bronium           19         20         21         22         24         25         26         27         28         29         30         31         35         34         35           Rb         S         91         93         96         99         101         103         106         108         112         115</td> <td>Potassium         Calcium         Scandium         Titanium         Vanadium         Chromitum         Anganese         Iron         Cobat         Nickel         Copper         Zinc         Gallium         Germanium         Arsenic         Selenium         Bronium           19         20         21         23         24         25         26         27         28         29         31         32         31         32         34         35           Rb         S         88         89         91         93         96         99         101         103         106         108         112         115         119         122         128         127           Rubicium         Strontium         Vitrium         Zirconium         Nichoium         Molydenum         Rehentium         Rehoidium         Relatium         Rehoidium         Silver         Cadmium         Infinium        
Silver         Cadmium         Infinium         Silver         Cadmium         Infinium         &lt;</td> <td>Potassium         Calcium         Scandium         Titanium         Vanadium         Chromitum         Anganese         Iron         Cobat         Nickel         Copper         Zin         Gallium         Germanium         Arsenic         Selenium         Bronium           19         20         21         22         24         25         26         27         28         29         101         103         106         108         112         115         119         122         128         127           Rb         S         99         101         103         106         IN         In</td> <td>Potassium         Calcium         Scandium         Chromium         Anaganese         Iron         Cobat         Nickel         Copper         Zin         Gallium         Germanium         Arsenic         Selenium         Bronium           19         20         21         22         23         24         25         26         27         28         29         101         103         106         108         112         115         119         122         128         127           Rb         Sr         91         96         99         101         103         106         108         112         115         119         122         128         127           Rb         Sr         74         Ar         Ar</td> <td>Lithium Beryllium         Beryllium         Atomic number         Atomic number         Born Carbon Nitrogen         Nitrogen Oxygen         Purple Pluorine           23         24         Sodium Magnesium         Sodium Magnesium         All Si Si Son         All Si Si Son         All Si Si Son         All Si</td> <td>  1</td> <td>  Hydrogen   Symbol   Symbol   Symbol   Symbol   Symbol   Atomic number   Symbol   Atomic number   Symbol   Sym</td> <td>  Hydrogen   Symbol   Symbol   Symbol   Symbol   Symbol   Molar mass g mol*   Hydrogen   Symbol   Symbol   Symbol   Symbol   Symbol   Hydrogen   Symbol   Hydrogen   Symbol   Hydrogen   Hydrogen   Symbol   Hydrogen   Hydr</td> <td>  Hande   Hander   Ha</td> <td>  Hydrogen</td> <td>  Hydrogen</td> <td>  1   2   4   5   6   7     Hydrogen</td> <td>  1   2   3   4   5   6   7     Hydrogen</td> <td>  Table   Tabl</td> <td>THE PERIODIC TABLE    1</td> <td>  THE PERIODIC TABLE   Symbol   Symbol</td> <td>  THE PERIODIC TABLE   The periodic material with the parameter   THE PERIODIC TABLE   The periodic material with the periodic ma</td> <td>THE PERIODIC TABLE    1</td> <td>THE PERIODIC TABLE  Group  1 2 Group  1 1 2 Group  1 1 2 Group  1 1 2 Group  1 1 2 6 7  1 1 1 2 6 7  1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td>   | Potassium         Calcium         Scandium         Titanium         Vanadium         Chronium         Anaganese         Iron         Cobat         Nicket         Copper         Zinc         Callium         Gallium         Greenium         Arsenic         Selenium         Bronium           19         20         21         22         24         25         26         27         28         29         30         31         35         34         35           Rb         S         91         93         96         99         101         103         106         108         112         115  
   
  | Potassium         Calcium         Scandium         Titanium         Vanadium         Chromitum         Anganese         Iron         Cobat         Nickel         Copper         Zinc         Gallium         Germanium         Arsenic         Selenium         Bronium           19         20         21         23         24         25         26         27         28         29         31         32         31         32         34         35           Rb         S         88         89         91         93         96         99         101         103         106         108         112         115         119         122         128         127           Rubicium         Strontium         Vitrium         Zirconium         Nichoium         Molydenum         Rehentium         Rehoidium         Relatium         Rehoidium         Silver         Cadmium         Infinium         Silver         Cadmium         Infinium         Silver         Cadmium         Infinium         <   
   
  | Potassium         Calcium         Scandium         Titanium         Vanadium         Chromitum         Anganese         Iron         Cobat         Nickel         Copper         Zin         Gallium         Germanium         Arsenic         Selenium         Bronium           19         20         21         22         24         25         26         27         28         29         101         103         106         108         112         115         119         122         128         127           Rb         S         99         101         103         106         IN   
   
  | Potassium         Calcium         Scandium         Chromium         Anaganese         Iron         Cobat         Nickel         Copper         Zin         Gallium         Germanium         Arsenic         Selenium         Bronium           19         20         21         22         23         24         25         26         27         28         29         101         103         106         108         112         115         119         122         128         127           Rb         Sr         91         96         99         101         103         106         108         112         115         119         122         128         127           Rb         Sr         74         Ar  
  | Lithium Beryllium         Beryllium         Atomic number         Atomic number         Born Carbon Nitrogen         Nitrogen Oxygen         Purple Pluorine           23         24         Sodium Magnesium         Sodium Magnesium         All Si Si Son         All Si Si Son         All Si Si Son         All Si  
   
  | 1  | Hydrogen   Symbol   Symbol   Symbol   Symbol   Symbol   Atomic number   Symbol   Atomic number   Symbol   Sym   | Hydrogen   Symbol   Symbol   Symbol   Symbol   Symbol   Molar mass g mol*   Hydrogen   Symbol   Symbol   Symbol   Symbol   Symbol   Hydrogen   Symbol   Hydrogen   Symbol   Hydrogen   Hydrogen   Symbol   Hydrogen   Hydr           | Hande   Hander   Ha | Hydrogen   | Hydrogen  
  | 1   2   4   5   6   7     Hydrogen   | 1   2   3   4   5   6   7     Hydrogen   | Table   Tabl | THE PERIODIC TABLE    1  | THE PERIODIC TABLE   Symbol    | THE PERIODIC TABLE   The periodic material with the parameter   THE PERIODIC TABLE   The periodic material with the periodic ma   | THE PERIODIC TABLE    1   
  | THE PERIODIC TABLE  Group  1 2 Group  1 1 2 Group  1 1 2 Group  1 1 2 Group  1 1 2 6 7  1 1 1 2 6 7  1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |
| K         Ca         Second         Nickel         Cop at Coping         Zin         GG         AS         Septeminal Browning Standing Standi   
   | K         Ca         SC         Ti         V         Cr         Mn         Fe         CO         Ni         Cu         Zn         GG         Assistion         Selenium         Bromine           Potassium         Sacidium         Standium         Transium         Vanadium         Chronium         Mangarese         170         Cobalt         Nicke         Copper         20         30         33         34         35         33         33         33         34         35         33         33         34         35         46         Ag         Cd         In         Sn         Sp         46         Ag         Ag         Cd         In         Sn         Ag   
   
  | K         Ca         SC         Ti         V         Cr         Mn         Fe         Co         Ničel         Copper         Znc         Gallium         Germanium         Arsenic         Selemium         Bromine           19         20         21         23         24         25         26         27         28         29         30         31         32         31         33         35           85         88         88         89         91         93         29         101         103         106         102         115         119         122         128         127           Rb         Srontium         Vernium         Zironium         Nicobium         Molybdenum         Retherium         Rhodium         Siner         Cadmium         Tin         AB         Tin         AB         AB         Cd         In         132         122         128         127         128         127         AB         AB </td <td>K         Ca         Scardium         Titatium         Vanded         Cr         Miscle         Copper         Zinc         Gallium         Germanium Arsenic         AS Benium         Assenic         Selenium         Bronine           19         20         21         22         23         24         25         26         17         17         17         32        
33         34         35           85         88         89         91         95         96         101         103         106         108         13         17         18         10         10         10         10         10         10         10         10</td> <td>K         Ca         Sc         Ti         V         Cr         Mn         Fe         Co         Nickel         Cu         Zn         Gallium         Gramanium         Arsenic         Selenium         Bromine           19         20         21         22         23         24         25         27         28         29         30         31         32         33         34         35           85         88         89         91         20         27         28         29         30         31         32         33         34         35           Rbb         SI         42         25         26         27         28         29         30         31         32         34         35           Rbb         SI         49         36         101         103         108         HB         AB         AB</td> <td>K         Ca         Scandium         Standium         Chromium         Manganese         Iron         Cobat         Nickel         Copper         Zinc         Gallium         Gremanium         Arsenic         Selenium         Bromine           19         20         21         22         23         24         25         26         27         28         29         30         31         35         34         35           85         88         89         91         96         101         103         106         108         112         115         115         112         112         128         127           Rbbidium         Stronium         Vitrium         Nobium         Molydenum         Rechnetium         Rhodium         Rhodium         Rhodium         Rhodium         Rhodium         Ag         Cd         In         An         Ag         Ag</td> <td>K         Ca         SC         Ti         V         Cr         Mn         Fe         CO         Ni         Cu         Zn         Gallium<br/>Grandium         Gallium<br/>Arsenium         Arsenium<br/>Arsenium         Arsenium<br/>Arsenium         Arsenium<br/>Arsenium         Arsenium<br/>Arsenium         Speciulum<br/>Arsenium         Bromine<br/>Arsenium         Bromine<br/>Arsenium         Arsenium<br/>Arsenium         Arsenium<br/>Arsenium         Arsenium<br/>Arsenium         Arsenium<br/>Arsenium         Bromine<br/>Arsenium         Arsenium<br/>Arsenium         Bromine<br/>Arsenium         Arsenium<br/>Arsenium         Bromine<br/>Arsenium         Arsenium<br/>Arsenium         Arsenium<br/></td> <td>Lithium         Beyllium         Atomic number         Atomic number         Boron         Lithium         Boron         Carbon         Nitrogen         Provine           23         24         Na         7         8         9           Na         Mg         7         35.5         35.5           Na         Mg         Al         Si         P         S           Sodium         Magnesium         Silicon         Phosphorus         Sulphur         Chlorine           11         12         48         51         52         56</td> <td>  Table   Tabl</td> <td>  Hydrogen   Symbol   Symbol  </td> <td>  Hydrogen</td> <td>  H   Hydrogen     F   Hydrogen     Symbol   Symbol   Symbol     I, i</td> <td>  1   Hydrogen     Hydrogen     Hydrogen     Symbol     Lij   Be     Lithium   Beryllium     3</td> <td>  Hydrogen</td> <td>  1   2   4   5   6   7     Hadrogen   1   1   1   1   1   1   1   1   1  </td> <td>  1   2   4   5   6   7     Hadrangen   1   1   1   1   1   1   1   1   1  </td> <td>  1   2   3   4   5   6   7     Hidrogen   1   1   2  </td> <td>  THE PERIODIC TABLE   THE PERIODIC TABLE   The periodic mass group   The periodic mass group  </td> <td>  THE PERIODIC TABLE   Strong   The periodic mass g molt   Symbol   Symbol</td> <td>  THE PERIODIC TABLE   Strong   The Periodic marginal   Symbol   S</td> <td>  THE PERIODIC TABLE   Strong   THE PERIODIC TABLE   Strong   Symbol   Symb</td> <td>  THE PERIODIC TABLE   Stroup   Stroup   Strong   Strong</td>  | K         Ca         Scardium         Titatium         Vanded         Cr         Miscle         Copper         Zinc         Gallium         Germanium Arsenic         AS Benium         Assenic         Selenium         Bronine           19         20         21         22         23         24         25         26         17         17         17         32         33         34         35           85         88         89         91         95         96         101         103         106         108         13         17         18         10         10         10         10         10         10         10         10  
   
  | K         Ca         Sc         Ti         V         Cr         Mn         Fe         Co         Nickel         Cu         Zn         Gallium         Gramanium         Arsenic         Selenium         Bromine           19         20         21         22         23         24         25         27         28         29         30         31         32         33         34         35           85         88         89         91         20         27         28         29         30         31         32         33         34         35           Rbb         SI         42         25         26         27         28         29         30         31         32         34         35           Rbb         SI         49         36         101         103         108         HB         AB  
   
   | K         Ca         Scandium         Standium         Chromium         Manganese         Iron         Cobat         Nickel         Copper         Zinc         Gallium         Gremanium         Arsenic         Selenium         Bromine           19         20         21         22         23         24         25         26         27         28         29         30         31         35         34         35           85         88         89         91         96         101         103         106         108         112         115         115         112         112         128         127           Rbbidium         Stronium         Vitrium         Nobium         Molydenum         Rechnetium         Rhodium         Rhodium         Rhodium         Rhodium         Rhodium         Ag         Cd         In         An         Ag  
   
  | K         Ca         SC         Ti         V         Cr         Mn         Fe         CO         Ni         Cu         Zn         Gallium<br>Grandium         Gallium<br>Arsenium         Arsenium<br>Arsenium         Arsenium<br>Arsenium         Arsenium<br>Arsenium         Arsenium<br>Arsenium         Speciulum<br>Arsenium         Bromine<br>Arsenium         Bromine<br>Arsenium         Arsenium<br>Arsenium         Arsenium<br>Arsenium         Arsenium<br>Arsenium         Arsenium<br>Arsenium         Bromine<br>Arsenium         Arsenium<br>Arsenium         Bromine<br>Arsenium         Arsenium<br>Arsenium         Bromine<br>Arsenium         Arsenium<br>Arsenium         Arsenium<br>  
  | Lithium         Beyllium         Atomic number         Atomic number         Boron         Lithium         Boron         Carbon         Nitrogen         Provine           23         24         Na         7         8         9           Na         Mg         7         35.5         35.5           Na         Mg         Al         Si         P         S           Sodium         Magnesium         Silicon         Phosphorus         Sulphur         Chlorine           11         12         48         51         52         56  
   
  | Table   Tabl   | Hydrogen   Symbol     | Hydrogen   | H   Hydrogen     F   Hydrogen     Symbol   Symbol   Symbol     I, i  
   | 1   Hydrogen     Hydrogen     Hydrogen     Symbol     Lij   Be     Lithium   Beryllium     3   | Hydrogen   | 1   2   4   5   6   7     Hadrogen   1   1   1   1   1   1   1   1   1   | 1   2   4   5   6   7     Hadrangen   1   1   1   1   1   1   1   1   1  | 1   2   3   4   5   6   7     Hidrogen   1   1   2  
  | THE PERIODIC TABLE   THE PERIODIC TABLE   The periodic mass group  | THE PERIODIC TABLE   Strong   The periodic mass g molt   Symbol    | THE PERIODIC TABLE   Strong   The Periodic marginal   Symbol   S   | THE PERIODIC TABLE   Strong   THE PERIODIC TABLE   Strong   Symbol   Symb   | THE PERIODIC TABLE   Stroup   Stroup   Strong    |
| K         Ca         Sc, or disturent         Sc, or disturent         Virtual condition         Frequency or Code and Code  
  | K         Ca         Scatter         Scatter         Mn         Fe         Co         Ni         Cu         Zn         Gallium         Generation         Argentic         Assentic         Selection         Bromine           19         20         21         22         23         23         30         31         33         34         35           85         85         91         23         24         25         26         30         31         32         33         34         35           Rbbidum         Str         No         72         27         28         29         30         31         32         34         35           Rbbidum         Str         No         70         10         103         106         108         112         115         117         118         117         118         118         184         186         190         192         195         197         201         204         207         204         207         204         207         204         207         204         207         204         207         204         207         204         207         204         207         204   
   
  | K         Ca         Scandium<br>Catcium         Scandium<br>Samudum         Transium<br>Debasium         Maganese<br>Transium         Fe         Co         Nickel<br>100         Copper<br>Sine         Zine<br>Capper         Gallium<br>Sine         Gallium<br>Arsenic<br>30         Arsenic<br>31         Se         Arsenic<br>30         Selentium<br>31         Bromine<br>31         Bromine<br>30         Sine         Gallium<br>30         Germanium<br>31         Arsenic<br>31         Selentium<br>30         Bromine<br>31         Bromine<br>30         Arsenic<br>31         Selentium<br>30         Bromine<br>31         Bromine<br>32         Bromine<br>32         Bromine<br>32         Bromine<br>32         Bromine<br>32         Bromine<br>32         Bromine<br>32         Brown<br>32         Brown<br>32         Brown<br>32         Br   
   
   
  | K         Calcium         Scandium         Titanium         Manadium         Chomium         Managanes         Iron         Cobal         Nickel         Copper         Zinc         Gallium         Germanium         Arsenic         Selenium         Bronine           19         20         21         22         24         25         26         27         28         29         31         32         33         34         35           85         88         89         91         95         101         103         106         108         112         119         122         139         34         35           Rbb         Sp         99         99         101         103         106         108         112         119         122         139         34         35         34         35         34         35         34         35         34         35         34         35         34         35         36         36         36         30         31         34         35         34         35         34         35         34         35         34         35         35         34         35         35         34         35  
   
  | K         Ca         Scattle clicium         Scattle clicium         Scattle clicium         CA         V         CV         Manganese         Iron         Cobat         Nickel         Copper         Zinc         Zinc         Arabit         Arabit         Scherium         Arabit         Scherium         Arabit         Arabit         Arabit         Arabit         Arabit         Iron         Cobat         Iron         Iron         Arabit         Arabit <td>K         Ca         Scandium         Standium         Chromium         Amaganese         Fe         Co         Nickel         Copper         Zinc         Gallium         Germanium         Arisenic         Selenium         Arisenic         Arisenic         Selenium         Arisenic         A</td> <td>K         Ca         Scandium         Titanium         Vanadium         Chromium         Amaganes         Iron         Cobat         Nickel         Copper         Zin         Gallium         Germanium         Arrentic         Selenium         Bromine           19         20         21         22         23         24         25         26         27         28         29         30         31         32         33         34         35           85         88         89         91         93         96         99         101         103         106         108         112         115         119         32         33         34         35           Rbb         Sr         91         99         101         103         106         108         112         115         119         32         33         33         34         35           Rbbidium         Strontium         Virtium         Molybdenum         Februarium         Rubdium         Rubdium         Rubdium         Silver         Cadmium         Infinitum         100         192         195         197         201         204         30         30         31         32         32</td> <td>Linkium         Beach         Carbon         Nitrogen         Nitrogen         Porton         Por</td> <td>7         9         Atomic number         Atomic number         Atomic number         11         12         14         16         19           Lithium         Beryllium         3         4         Nitogen         Nitogen         O         F           23         24         5         6         7         8         9           Na         Mg         31         32         35.5           Na         Mg         Sodium         Magnesium         Silicon         Phosphorus         Sulphur         Chlorine           11         12         12         14         15         16         17</td> <td>Hydrogen           Symbol         Name         11         12         14         16         19           7         9         Lithium         Beryllium         Name         N         O         F           Lithium         Beryllium         Septilum         Nitrogen         Oxygen         Fluorine           3         4         5         6         7         8         9           23         24         Nitrogen         Oxygen         Fluorine           Na         Mg         Silicon         P         Silicon         Silicon         Phosphorus         Sulphur         Chlorine           11         12         13         14         15         16         17</td> <td>  Hydrogen   Symbol   Symbol   Symbol   Atomic number   Berylium   Berylium   Sodium   Magnesium   Modern   Magnesium   Modern   Modern   Magnesium   Modern   Magnesium   Magnesium   Magnesium   Magnesium   Modern   Mod</td> <td>  1   Hydrogen     Hydrogen     Hydrogen     Hydrogen     Hydrogen     Symbol     Name   Name     Lithium   Beryllium     3   4     Lithium   Beryllium   3     24   Name   Nirogen   Niro</td> <td>  1   Hydrogen   Symbol   Symb</td> <td>  1   Hydrogen</td> <td>  1   2   2   6   7   7   7   7   7   7   7   7   7</td> <td></td> <td>  1   2   3   4   5   6   7     Hydrogen</td> <td>THE PERIODIC TABLE  1 2 Group    Holder mass g molt   Hydrogen   Hydrogen   Hydrogen     Hydrogen   Hydrogen   Symbol   Name   Symbol   Name   Hydrogen   Hydrogen  </td> <td></td> <td></td> <td>  THE PERIODIC TABLE   Strong   THE PERIODIC TABLE   The property   The periodic property   The period</td> <td></td>   | K         Ca         Scandium         Standium         Chromium         Amaganese         Fe         Co         Nickel         Copper         Zinc         Gallium         Germanium         Arisenic         Selenium         Arisenic         Arisenic         Selenium         Arisenic         A   
   
   | K         Ca         Scandium         Titanium         Vanadium         Chromium         Amaganes         Iron         Cobat         Nickel         Copper         Zin         Gallium         Germanium         Arrentic         Selenium         Bromine           19         20         21         22         23         24         25         26         27         28         29         30         31         32         33         34         35           85         88         89         91         93         96         99         101         103         106         108         112         115         119         32         33         34         35           Rbb         Sr         91         99         101         103         106         108         112         115         119         32         33         33         34         35           Rbbidium         Strontium         Virtium         Molybdenum         Februarium         Rubdium         Rubdium         Rubdium         Silver         Cadmium         Infinitum         100         192         195         197         201         204         30         30         31         32         32   
  | Linkium         Beach         Carbon         Nitrogen         Nitrogen         Porton         Por  
   
  | 7         9         Atomic number         Atomic number         Atomic number         11         12         14         16         19           Lithium         Beryllium         3         4         Nitogen         Nitogen         O         F           23         24         5         6         7         8         9           Na         Mg         31         32         35.5           Na         Mg         Sodium         Magnesium         Silicon         Phosphorus         Sulphur         Chlorine           11         12         12         14         15         16         17  | Hydrogen           Symbol         Name         11         12         14         16         19           7         9         Lithium       
 Beryllium         Name         N         O         F           Lithium         Beryllium         Septilum         Nitrogen         Oxygen         Fluorine           3         4         5         6         7         8         9           23         24         Nitrogen         Oxygen         Fluorine           Na         Mg         Silicon         P         Silicon         Silicon         Phosphorus         Sulphur         Chlorine           11         12         13         14         15         16         17   | Hydrogen   Symbol   Symbol   Symbol   Atomic number   Berylium   Berylium   Sodium   Magnesium   Modern   Magnesium   Modern   Modern   Magnesium   Modern   Magnesium   Magnesium   Magnesium   Magnesium   Modern   Mod           | 1   Hydrogen     Hydrogen     Hydrogen     Hydrogen     Hydrogen     Symbol     Name   Name     Lithium   Beryllium     3   4     Lithium   Beryllium   3     24   Name   Nirogen   Niro | 1   Hydrogen   Symbol   Symb | 1   Hydrogen   | 1   2   2   6   7   7   7   7   7   7   7   7   7  |  | 1   2   3   4   5   6   7     Hydrogen  
  | THE PERIODIC TABLE  1 2 Group    Holder mass g molt   Hydrogen   Hydrogen   Hydrogen     Hydrogen   Hydrogen   Symbol   Name   Symbol   Name   Hydrogen  |  |  | THE PERIODIC TABLE   Strong   THE PERIODIC TABLE   The property   The periodic property   The period   |  |
| Second   S   
  | 15   
   
  | 1  
   
   
  | K         Ca         SSC         Ti         V         CT         Mn         Fe         CO         Ni         Cu         Zn         GG         AS         6.54         70         73         75         79         80           Potassium         Scandium         Tranium         Vanadium         Cronium         Marganese         Iron         Cobalt         Nickel         Copper         Zinc         Gallium         Germanium         Arsenic         Septemum         Bromine           Rb         St         30         21         22         23         26         37         13         13         13         13         14         13         17         18         17         18         17         18         17         18 </td <td>K         Ca         SS         48         51         52         55         56         59         63.5         65.4         70         73         75         79         80           K         Ca         SC         Ti         Cr         Mn         Fe         CO         Ni         Cu         Zn         Gellium         Genemanium         Arsenic         Septentium         Bronine           19         20         21         22         23         24         25         26         Ni         31         32         33         34         35           85         8         9         9         9         101         103         106         Ag         Collium         Arsenic         Selentium         Arsenic         Selentium         Bronine         Arsenic         Selentium         Arsenic         Selentium         Bronine         Bronine         Bronine         Bronine         Arsenic         Arsenic         Selentium         Bronine         Bronine         Bronine         Arsenic         <td< td=""><td>K         Ca         40         45         48         51         52         56         59         65.5         70         73         75         79         80           K         Ca         SCandium         Sacudium         Chromium         Manganese         Iron         Cobalt         Nickel         Copper         Zinc         Gallium         Arsenic         Selenium         Bromine           19         20         21         22         23         24         25         27         28         29         30         31         35         34         35           Rb         Sr         38         88         91         95         90         101         103         112         115         116         115         115         115         115</td><td>K         Ca         45         48         51         52         55         59         63.5         65.4         70         73         75         79         80           K         Ca         SC         Ti         V         Cr         Mn         Fe         Cobat         Nickel         Copper         Zin         GG         Assenic         Selenium         Bromine           19         20         21         22         23         24         25         26         77         28         29         30         31         32         33         34         35           85         88         89         91         93         96         99         101         103         106         108         112         115         115         116         32         30         31         32         33         34         35           Rbb idium         Stronium         Wobium         Molydenum         Technetium         Rubidium         Palladium         Silver         Cadmium         110         120         120         120         120         20         20         20         20         20         20         20         20         20</td><td>Lithium         Beyllium         Atomic number         Atomic number         Propertion of the properties of the pr</td><td>  1</td><td>  Hydrogen   Symbol   Solium   Beryllium   Beryllium   Symbol   Symbol   Solium   Symbol   Solium   Symbol   Solium   Symbol   Solium   Symbol   Sy</td><td>  Hydrogen</td><td>  Hydrogen    </td><td>  Hydrogen   Symbol   Symbol   Name   Symbol   Soron   Carbon   Symbol   Soron   Symbol   Soron   Symbol   Soron   Symbol   Symbo</td><td>  H   Hydrogen     Symbol   Symbol     Lithium Beryllium   Beryllium   3   4   4   10   10     Sodium   Magnesium   Magnesium</td><td>  1   2   2   4   5   6   7   7   1   1   2   4   5   6   7   7   1   1   2   4   5   6   7   7   1   2   4   5   6   7   7   2   3   4   5   6   7   7   3   3   4   5   6   7   7   3   3   3   3   3   3   3   3</td><td>  1   2   2   6   7    </td><td>  1   2   3   4   5   6   7    </td><td>  THE PERIODIC TABLE   Strong   THE PERIODIC TABLE   The proper   THE PERIODIC TABLE   The property   The prope</td><td>  THE PERIODIC TABLE   3 4 5 6 7    </td><td>THE PERIODIC TABLE    1</td><td>  THE PERIODIC TABLE   Stroup   Strong   THE PERIODIC TABLE   Strong   Stro</td><td>THE PERIODIC TABLE  Group  1 2 Group  3 4 5 6 7  Key  Hydrogen  Hydrogen  Linhum Berylfum  Symbol  Name  Name  Name  Atomic number  Name  Name</td></td<></td>   
  | K         Ca         SS         48         51         52         55         56         59         63.5         65.4         70         73         75         79         80           K         Ca         SC         Ti         Cr         Mn         Fe         CO         Ni         Cu         Zn         Gellium         Genemanium         Arsenic         Septentium         Bronine           19         20         21         22         23         24         25         26         Ni         31         32         33         34         35           85         8         9         9         9         101         103         106         Ag         Collium         Arsenic         Selentium         Arsenic         Selentium         Bronine         Arsenic         Selentium         Arsenic         Selentium         Bronine         Bronine         Bronine         Bronine         Arsenic         Arsenic         Selentium         Bronine         Bronine         Bronine         Arsenic         Arsenic <td< td=""><td>K         Ca         40         45         48         51         52         56         59         65.5         70         73         75         79         80           K         Ca         SCandium         Sacudium         Chromium         Manganese         Iron         Cobalt         Nickel         Copper         Zinc         Gallium         Arsenic         Selenium         Bromine           19         20         21         22         23         24         25         27         28         29         30         31         35         34         35           Rb         Sr         38         88         91         95         90         101         103         112         115         116         115         115         115         115</td><td>K         Ca         45         48         51         52         55         59         63.5         65.4         70         73         75         79         80           K         Ca         SC         Ti         V         Cr         Mn         Fe         Cobat         Nickel         Copper         Zin         GG         Assenic         Selenium         Bromine           19         20         21         22         23         24         25         26         77         28         29         30         31         32         33         34         35           85         88         89         91         93         96         99         101         103         106         108         112         115         115         116         32         30         31         32         33         34         35           Rbb idium         Stronium         Wobium         Molydenum         Technetium         Rubidium         Palladium         Silver         Cadmium         110         120         120         120         120         20         20         20         20         20         20         20         20         20</td><td>Lithium         Beyllium         Atomic number         Atomic number         Propertion of the properties of the pr</td><td>  1</td><td>  Hydrogen   Symbol   Solium   Beryllium   Beryllium   Symbol   Symbol   Solium   Symbol   Solium   Symbol   Solium   Symbol   Solium   Symbol   Sy</td><td>  Hydrogen</td><td>  Hydrogen    </td><td>  Hydrogen   Symbol   Symbol   Name   Symbol   Soron   Carbon   Symbol   Soron   Symbol   Soron   Symbol   Soron   Symbol   Symbo</td><td>  H   Hydrogen     Symbol   Symbol     Lithium Beryllium   Beryllium   3   4   4   10   10     Sodium   Magnesium   Magnesium</td><td>  1   2   2   4   5   6   7   7   1   1   2   4   5   6   7   7   1   1   2   4   5   6   7   7   1   2   4   5   6   7   7   2   3   4   5   6   7   7   3   3   4   5   6   7   7   3   3   3   3   3   3   3   3</td><td>  1   2   2   6   7    </td><td>  1   2   3   4   5   6   7    </td><td>  THE PERIODIC TABLE   Strong   THE PERIODIC TABLE   The proper   THE PERIODIC TABLE   The property   The prope</td><td>  THE PERIODIC TABLE   3 4 5 6 7    </td><td>THE PERIODIC TABLE    1</td><td>  THE PERIODIC TABLE   Stroup   Strong   THE PERIODIC TABLE   Strong   Stro</td><td>THE PERIODIC TABLE  Group  1 2 Group  3 4 5 6 7  Key  Hydrogen  Hydrogen  Linhum Berylfum  Symbol  Name  Name  Name  Atomic number  Name  Name</td></td<> | K         Ca         40         45         48         51         52         56         59         65.5         70         73         75         79         80           K         Ca         SCandium         Sacudium         Chromium         Manganese         Iron         Cobalt         Nickel         Copper         Zinc         Gallium         Arsenic         Selenium         Bromine           19         20         21         22         23         24         25         27         28         29         30         31         35         34         35           Rb         Sr         38         88         91         95         90         101         103         112         115         116         115         115         115         115  
   
   | K         Ca         45         48         51         52         55         59         63.5         65.4         70         73         75         79         80           K         Ca         SC         Ti         V         Cr         Mn         Fe         Cobat         Nickel         Copper         Zin         GG         Assenic         Selenium         Bromine           19         20         21         22         23         24         25         26         77         28         29         30         31         32         33         34         35           85         88         89         91         93         96         99         101         103         106         108         112         115         115         116         32         30         31         32         33         34         35           Rbb idium         Stronium         Wobium         Molydenum         Technetium         Rubidium         Palladium         Silver         Cadmium         110         120         120         120         120         20         20         20         20         20         20         20         20         20  
  | Lithium         Beyllium         Atomic number         Atomic number         Propertion of the properties of the pr  
   
  | 1  | Hydrogen   Symbol   Solium   Beryllium   Beryllium   Symbol   Symbol   Solium   Symbol   Solium   Symbol   Solium   Symbol   Solium   Symbol   Sy   | Hydrogen   | Hydrogen   
   | Hydrogen   Symbol   Symbol   Name   Symbol   Soron   Carbon   Symbol   Soron   Symbol   Soron   Symbol   Soron   Symbol   Symbo | H   Hydrogen     Symbol   Symbol     Lithium Beryllium   Beryllium   3   4   4   10   10     Sodium   Magnesium            | 1   2   2   4   5   6   7   7   1   1   2   4   5   6   7   7   1   1   2   4   5   6   7   7   1   2   4   5   6   7   7   2   3   4   5   6   7   7   3   3   4   5   6   7   7   3   3   3   3   3   3   3   3  | 1   2   2   6   7  | 1   2   3   4   5   6   7  | THE PERIODIC TABLE   Strong   THE PERIODIC TABLE   The proper   THE PERIODIC TABLE   The property   The prope   | THE PERIODIC TABLE   3 4 5 6 7   | THE PERIODIC TABLE    1  
   | THE PERIODIC TABLE   Stroup   Strong   THE PERIODIC TABLE   Strong   Stro   | THE PERIODIC TABLE  Group  1 2 Group  3 4 5 6 7  Key  Hydrogen  Hydrogen  Linhum Berylfum  Symbol  Name  Name  Name  Atomic number  Name   |
| 1  
  | 17   12   13   14   15   15   15   15   15   15   15   
   
   
  | K   Ca   Sc   Ti   V   Cr   Mn   Fe   Co   Ni   Cup   Tin   Tin   Manganese   Tin   Tin   Manganese   Tin   Tin   Tin   Tin   Manganese   Tin   Tin   Tin   Tin   Manganese   Tin  
   
  | Kappa   Kapp   
   
  | 1  
   
  | 1  
   | No.   
  | Lightum         Bernal Berulium         Atomic number         Atomic number         Property of the  
   
  | 1   12   14   16   19     Lithium   Beryllium   3   4     Lithium   Beryllium   3   4     Lithium   Beryllium   3   4     Lithium   Beryllium   3   4     Lithium   Beryllium   Silicon   Nitrogen   Oxygen   Fluorine   Silicon   Sodium   Maenesium   Silicon   Soliubur   Silicon   Soliubur   Silicon   Soliubur   Silicon   Siliubur   Silicon   Siliubur   | Hydrogen Symbol  Name  Atomic number  Atomic number  Name  Symbol  Atomic number  Atomic number  Name  Symbol  Atomic number  Atomic number  Name  Symbol  Atomic number  Atomic number  Symbol  Name  Symbol  Atomic number  Atomic number  Symbol  Name  Symbol  Nitrogen  Sygen  | Hydrogen   Symbol             | Hydrogen   | Hander mass g mol*     Hydrogen  
   | Hydrogen   | 1   2   4   5   6   7  | 1   2   4   5   6   7     1   1   2  | 1   2   4   5   6   7  
   | THE PERIODIC TABLE   The Periodic  | THE PERIODIC TABLE    Key   Ke | THE PERIODIC TABLE  3 4 5 6 7  Group    Name   Name   Name   Symbol   Symbol   Name   Symbol   Name   Symbol   Name   Symbol   Sym | THE PERIODIC TABLE   3 4 5 6 7   | THE PERIODIC TABLE    1  |
| 11   12   12   13   14   14   15   15   15   15   15   15  
  | 1  
   
   
  | 11   12   12   13   14   15   15   15   15   15   15   15  
   
  | 1  
   
  | 11   12   12   13   14   15   15   15   15   15   15   15  
   
  | 11         12         48         48         51         52         55         59         59         65.5         65.4         70         73         75         79         80           K         Ca         Sc         70         Nickel         Copper         Zin         Gallium         Germanium         Arsenic         Selenium         Bronine           19         20         21         22         23         24         25         27         28         29         30         31         35         Selenium         Bronine           19         20         21         22         23         24         25         27         28         29         30         31         35         Selenium         Bronine           19         20         21         22         23         24         25         27         28         39         33         34         35           Rbb Sr         Yr         Xr         Nb         Mo         TC         Ru         Rh         Pd         Ag   
   
  | 11   12   12   13   14   15   15   15   15   15   15   15  
   | Li         Be Lithium         Atomic number   
   
   | 1   12   14   16   19     Lithium Beryllium   3   4     Lithium Beryllium   3     Lithium Beryllium   3    | Hydrogen   Symbol   Symbol   Name   Name   Symbol   Name   Name   Symbol   Symbol   Name   Symbol   Name   Symbol   Name   Symbol   Name   Symbol   Sy   | Hydrogen   | 1   Hydrogen     Hydrogen   Symbol   Symbol     Lithium Beryllium   3  | 1   Molar mass g mol¹   Symbol   Symbol   Name   Symbol   Sy | H   Hydrogen   Symbol   Symbol   Name   Atomic number   S   4   Boron   Carbon   Nirogen   Carbon   Nirogen   Symbol   S   6   7   8   9   19   S   C   N   O   F   S   S   S   S   S   S   S   S   S  | 1   2   4   5   6   7   
  | 1 2 Group 3 4 5 6 7   1   1   1   2   1   1   2   1   1   2   1   1  | 1   2   3   4   5   6   7  | THE PERIODIC TABLE   Strong   THE PERIODIC TABLE   The periodic mass gmot'   The periodic mass gmot   The periodic mass   | THE PERIODIC TABLE   3 4 5 6 7   | THE PERIODIC TABLE    1   
  | THE PERIODIC TABLE  Group  Rey  Hydrogen  Name  Lii Be Lithium Beryllium  Symbol  Name  Atomic number  Na  Mg  Atomic number  Na  Mg  Mg  Mg  Mg  Mg  Mg  Mg  Mg  Mg  M  | THE PERIODIC TABLE  1 2 Group  Symbol  Wame  Lii Be Lithium Beryllium Beryll |
| Sodium         Magnesium         45         48         11         52         55         56         59         653         653         654         70         73         75   
  | Sodium         Magnesium         State of the continue of the continu  
   
  | Sodium         Magenesium         48         51         52         55         59         59         63         73         73         73         73         73         73         73         73         73         73         73         73         73         80         90   
   
   
  | Sodium         Magnesium         Aluminium         Still on solution         Aluminium on silicon         Subphores         Subphores         Subphores         Subphores         Cultivation         Chlorine         Aluminium on silicon         Subphores         <  
   
  | Sodium         Magnesium         Aluminium         Phosphorus         Silicon         Phosphorus         Sulphur         Chlorine           11         12         4         4         4         4         4         4         4         4         4         4         4         5         5         5         5         65.4         7         8         8         9<  
   
  | Sodium         Magnesium         45         48         51         1         15         1         15         15         15         15         15         15         17         18         18         19         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10  
   | Sodium         Magnesium         44         45         48         51         3         40         45         48         51         3         55         55         65         65         65         65         65         65         65         65         70         73         75         79         70         71         70         75         75         79         70         71         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70    
    70       
  | Lip         Be         Atomic number         Atomic number         Atomic number         Boron         Included of the property o  
   
  | 1   12   14   16   19     Li Be   Lithium Beryllium   Beryllium   Beryllium   S   6   7   8   9     Li Be   Lithium Beryllium   S   6   7   8   9     Li Boron   Carbon   Nitrogen   Pluorine   S   6   7   8   9     Li Boron   Carbon   Nitrogen   Pluorine   S   6   7   8   9     Li Be   Lithium Beryllium   S   6   7   8   9     Li Be   Lithium Beryllium   S   6   7   8   9     Li Be   Lithium Beryllium   S   6   7   8   9     Li Be   Lithium Beryllium   S   6   7   8   9     Li Be   Lithium Beryllium   S   6   7   8   9     Li Be   Lithium Beryllium   S   6   7   8   9     Li Be   Lithium Beryllium   S   6   7   8   9     Li Be   Lithium Beryllium   S   6   7   8   9     Li Be   Lithium Beryllium   S   6   7   8   9     Li Be   Lithium Beryllium   S   6   7   8   9     Li Be   Lithium Beryllium   S   6   7   8   9     Li Be   Lithium Beryllium   S   6   7   8   9     Li Be   Lithium Beryllium   S   6   7   8   9     Li Be   Lithium Beryllium   S   6   7   8   9     Li Be   Lithium Beryllium   S   6   7   8   9     Li Be   Lithium Beryllium   S   6   7   8   9     Li Be   Lithium Beryllium   S   7   8   9        | Hydrogen   Symbol     | Hydrogen   | Hydrogen   | Hydrogen   Symbol   Symbol   Name   Symbol   S | H   Hydrogen   Symbol   Symbol   Name   Name   Symbol   Hydrogen   Symbol   Name   Symbol   Symbol   Name   Symbol   S           | 1 2  | 1 2   Key   Molar mass g mol*   Hydrogen   Symbol   Name   Symbol   Molar mass g mol*   Molar mass g mol*   Molar mass g mol*   Symbol   Symbol   Name   Symbol   Mane   Symbol   Molar mass g mol*   Symbol   Symbol   Molar mass g mol*   Symbol   | 1   2  | THE PERIODIC TABLE   Strong   THE PERIODIC TABLE   Strong   The Periodic number   THE PERIODIC TABLE   Strong   The Periodic number   The Periodic numbe         
   | THE PERIODIC TABLE  Group    Key   Hydrogen   Hydrogen  | THE PERIODIC TABLE  3 4 5 6 7  Group    Hodger mass g mol^+   Symbol   Symbol   Name   Symbol   Atomic number   Beroin   State   Symbol    | THE PERIODIC TABLE    1  | THE PERIODIC TABLE  Group  Key  Hydrogen  I  |
| Na   Mignesian   
  | Sofilam         Aluminium         Silicon         Phosphotas         Sulphur         Chlorine           11         40         45         48         51         55         55         655         70         73         75         75         70         17           11         11         40         45         48         51         55         655         70         73         75         75         75         75         70         70         75  
   
  | NAB         MVB         Almanian         Silicon         Prospectors         Subpur         Chlorine           3.0         4.0         4.5         4.8         5.5         5.6         5.9         5.9         6.3 </td <td>Name and Marganesium Magnesium Ma</td> <td>Name and Magnesium         Magnesium         All buildings Silving         Aluminium         Silving         Phosphorus         Supplied         CLI        
  13         14         45         48         51         55         56         59         59         63         63         70         73         75         79         80           K         Ca         45         48         51         52         56         59         59         63         63         63         70         73         75         79         80           K         Ca         Scendium         Tranium         Aradium         Chronium         Aradium         Feet Co         Ni         Copat         Copat</td> <td>Name and Magnesium Sodium Magnesium Sodium Magnesium Sodium Magnesium Sodium Magnesium Sodium Magnesium Schelming Sodium Schelming Sodium Schelming Silver Schelming Schel</td> <td>Name         Mignesum         Aluminima         Silicon         Prophorus         Suppure         CLI           30dium         Magnesum         12         4</td> <td>Lightum         Beach Lithium         Atomic number         Atomic number         Beryllium         Professor         Professor</td> <td>7         9         Atomic number         Atomic number         Atomic number         B         C         N         O         F           Lithium         Beryllium         Beryllium         Nitrogen         Oxygen         Fluorine           3         4         5         6         7         8         9           23         24         28         31         32         355</td> <td>Hydrogen Symbol  Name  Atomic number  Atomic number  Symbol  Atomic number  Atomic number  Symbol  Name  Atomic number  Atomic number  Symbol  Name  Atomic number  Boron  Symbol  Nitogen  Symbol  Atomic number  Boron  Symbol  Atomic number  Boron  Symbol  Atomic number  Symbol  Atomic number  Atomic number  Symbol  Nitogen  Symbol  Boron  Symbol  Atomic number  Symbol  Atomic number  Atomic number  Symbol  Atomic number  Atomic number  Symbol  Symbol  Atomic number  Symbol  Atomic number  Atomic number  Symbol  Atomic number  Symbol  Symbol  Atomic number  Symbol  Symbol  Atomic number  Symbol  Symb</td> <td>  Hydrogen   Symbol   Symbol   Name   Symbol   Atomic number   Boron   Carbon   Nitrogen   Symbol   Sy</td> <td>  1   Hydrogen     Hydrogen     Hydrogen     Hydrogen     Symbol     Name     Li   Be     Lithium     Beryllium     Lithium     Beryllium     Symbol     Nimogen     Symbol     Name     Hydrogen     Symbol     Name     Hydrogen     Symbol     Name     Hydrogen     Symbol     Symbol     S</td> <td>  Hander mass g mol*     Hydrogen</td> <td>  Hydrogen   Symbol   Symbol   Name   Symbol  </td> <td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> <td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> <td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> <td>THE PERIODIC TABLE 3 4 5 6 7 Group Key Molar mass g mol ' Hydrogen Symbol Symbol Name Lihium Beryllium Beryllium Beryllium <math>\frac{7}{23}</math> <math>\frac{9}{24}</math> <math>\frac{1}{24}</math> <math>\frac{1}{24</math></td> <td></td> <td>THE PERIODIC TABLE    1</td> <td></td> <td>THE PERIODIC TABLE  Group  Rey  Hydrogen  Symbol  Name  Lii Be  Lii Be  Lithium Beryllum  Boron Carbon Nirogen Fluorne  Symbol  Name  Atomic number  Atomic number  Symbol  Symbol  Name  Atomic number  Symbol  Symbol  Symbol  Atomic number  Atomic number  Symbol  Symbol  Symbol  Atomic number  Symbol  Symbol  Symbol  Atomic number  Symbol  Symbol  Atomic number  Symbol  Symbol  Symbol  Symbol  Atomic number  Symbol  Symbol  Atomic number  Symbol  Symbol  Symbol  Atomic number  Symbol  Symbol  Atomic number  Symbol  Symbol  Atomic number  Symbol  Symbol  Symbol  Atomic number  Symbol  Symbol  Symbol  Symbol  Symbol  Symbol  Atomic number  Symbol  Symbo</td> | Name and Marganesium Magnesium Ma  
   
  | Name and Magnesium         Magnesium         All buildings Silving         Aluminium         Silving         Phosphorus         Supplied         CLI           13         14         45         48         51         55         56         59         59         63         63         70         73         75         79         80           K         Ca         45         48         51         52         56         59         59         63         63         63         70         73         75         79         80           K         Ca         Scendium         Tranium         Aradium         Chronium         Aradium         Feet Co         Ni         Copat   
   
  | Name and Magnesium Sodium Magnesium Sodium Magnesium Sodium Magnesium Sodium Magnesium Sodium Magnesium Schelming Sodium Schelming Sodium Schelming Silver Schelming Schel   
  | Name         Mignesum         Aluminima         Silicon         Prophorus         Suppure         CLI           30dium         Magnesum         12         4   
   | Lightum         Beach Lithium         Atomic number         Atomic number         Beryllium         Professor   
   
   | 7         9         Atomic number         Atomic number         Atomic number         B         C         N         O         F           Lithium         Beryllium         Beryllium         Nitrogen         Oxygen         Fluorine           3         4         5         6         7         8         9           23         24         28         31         32         355   
  | Hydrogen Symbol  Name  Atomic number  Atomic number  Symbol  Atomic number  Atomic number  Symbol  Name  Atomic number  Atomic number  Symbol  Name  Atomic number  Boron  Symbol  Nitogen  Symbol  Atomic number  Boron  Symbol  Atomic number  Boron  Symbol  Atomic number  Symbol  Atomic number  Atomic number  Symbol  Nitogen  Symbol  Boron  Symbol  Atomic number  Symbol  Atomic number  Atomic number  Symbol  Atomic number  Atomic number  Symbol  Symbol  Atomic number  Symbol  Atomic number  Atomic number  Symbol  Atomic number  Symbol  Symbol  Atomic number  Symbol  Symbol  Atomic number  Symbol  Symb | Hydrogen   Symbol   Symbol   Name   Symbol   Atomic number   Boron   Carbon   Nitrogen   Symbol   Sy           | 1   Hydrogen     Hydrogen     Hydrogen     Hydrogen     Symbol     Name     Li   Be     Lithium     Beryllium     Lithium     Beryllium     Symbol     Nimogen     Symbol     Name     Hydrogen     Symbol     Name     Hydrogen     Symbol     Name     Hydrogen     Symbol     Symbol     S | Hander mass g mol*     Hydrogen  | Hydrogen   Symbol   Symbol   Name   Symbol             | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   
   | THE PERIODIC TABLE 3 4 5 6 7 Group Key Molar mass g mol ' Hydrogen Symbol Symbol Name Lihium Beryllium Beryllium Beryllium $\frac{7}{23}$ $\frac{9}{24}$ $\frac{1}{24}$ $\frac{1}{24$ |  | THE PERIODIC TABLE    1  |  | THE PERIODIC TABLE  Group  Rey  Hydrogen  Symbol  Name  Lii Be  Lii Be  Lithium Beryllum  Boron Carbon Nirogen Fluorne  Symbol  Name  Atomic number  Atomic number  Symbol  Symbol  Name  Atomic number  Symbol  Symbol  Symbol  Atomic number  Atomic number  Symbol  Symbol  Symbol  Atomic number  Symbol  Symbol  Symbol  Atomic number  Symbol  Symbol  Atomic number  Symbol  Symbol  Symbol  Symbol  Atomic number  Symbol  Symbol  Atomic number  Symbol  Symbol  Symbol  Atomic number  Symbol  Symbol  Atomic number  Symbol  Symbol  Atomic number  Symbol  Symbol  Symbol  Atomic number  Symbol  Symbol  Symbol  Symbol  Symbol  Symbol  Atomic number  Symbol  Symbo |
| Na         Mg         Social         Als         S1         S         S         S         CI           Social         Magnesium         Als         51         S         55         55         55         55         65         7         75  
  | Name Magnesium         Mg Sodium Magnesium         Alminium Silicon         Silicon Procedure Sulphur Chorine         Clointing Silicon         Procedure Sodium Silicon         Procedure Sodium Silicon         Alminium Silicon         Silicon Procedure Silicon         Clointing Silicon         Procedure Silicon   
   
  | Na         Mg         strate   
   
   
  | Na         Mg         3         48         51         8         55         55         55         55         55         55         63.5         63.5         63.4         70         73         73         73         71         72 <th< td=""><td>Na         Mg         41         Signosime         Silicon         Aluminium         Silicon         Plosphorus         Suphur         Chlorine           11         12         4         45         48         5         5         5         5         5         5         6         5         6         4         13         14         15         16         17         18         17         18         17         18         18         18         10         10         10         10         10         10         10         10         10         10         11         10         10         11         11         11         10         11         11         10         10         11         11         11         10         10         11         11         11         11         11         11         11         11         11</td><td>Na         Mg         31         All         Sil. or         Phosphorus         Sulform         Chlorine           11         12         44         48         51         5         55         55         55         65         70</td><td>Na         Mg         Sodium         Magnetisum         Alaminisum         Silicon         Phosphorus         Sulficon         Phosphorus         Sulficon         Phosphorus         Chlorine           11         12         40         45         48         51         55         55         55         59         59         63.5         63.4         70         73         75         79         80           K         Ca         SC         Ti         V         CT         Mn         Fe         CO         Ni         Cup         70         73         75         79         80           Poussium         Sandium         Trianium         Vanadium         Chonium         Maganese         Iron         Cobalt         Ni         Cup         AS         63.4         70         73         75         79         80           85         St         71         V         CT         Mn         Fe         CO         Ni         Copset         AS         63         AS         AS</td><td>Li         Be         Nitrogen         Nitrogen         Fluorine           3         4         5         6         7         8         9</td><td>7         9         Atomic number         Atomic number         Atomic number         B         C         N         O         F           Lithium         Beryllium         Saton         Nitrogen         Oxygen         Fluorine           3         4         5         6         7         8         9</td><td>Hydrogen         Symbol         Symbol         11         12         14         16         19           Name         Atomic number         Atomic number         Boron         Carbon         Nirogen         Nirogen         Pluorine           3         4         5         6         7         8         9</td><td>  Hydrogen</td><td>  1   Hydrogen   Symbol   Symbol   Name   Atomic number   Boron   Carbon   Nirogen   Symbol   Symbol   Nirogen   Pluorine   Boron   Symbol   Nirogen   Pluorine   Symbol   Symbol   Nirogen   Symbol   Sy</td><td>  Hydrogen</td><td>  H   Hydrogen   Symbol   Symbol   Name   Atomic number   B   C   N   O   F   Eluciniam   Beryllium   3</td><td>  1   2   5   6   7    </td><td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td>  1   2   3   4   5   6   7   7   9                            </td><td>THE PERIODIC TABLE 3 4 5 6 7 Group Hydrogen Symbol Symbol Lithium Beryllium 3 4 5 6 7 <math>\frac{1}{2}</math> Atomic number <math>\frac{7}{3}</math> Atomic number <math>\frac{1}{3}</math> Atomi</td><td>THE PERIODIC TABLE THE PERIODIC</td><td>THE PERIODIC TABLE 3 4 5 6 7 Figure 1    Symbol    Name    Lithium Beryllium 3 4 5 6 7    Molar mass g mol   Symbol   Name    Atomic number    Atomic number   3 4 5 6 7    Key    Molar mass g mol   Symbol   Name   Atomic number   3 4 5 6 7    Name    Atomic number   Beron   Symbol   Name   Beron   Symbol   Name   Beron   Symbol   Name   Beron   Symbol   Name   Beron   Symbol   Beron   Symbol   Symbol   Name   Beron   Symbol   Symbol   Symbol   Name   Beron   Symbol   Symbol   Symbol   Symbol   Symbol   Name   Beron   Symbol   S</td><td>THE PERIODIC TABLE 3 4 5 6 7 February Bright Symbol Symbol Lithium Beryllium 3 4 5 6 7 <math>\frac{1}{1}</math> Atomic number <math>\frac{7}{3}</math> Atomic number <math>\frac{11}{3}</math> Beryllium <math>\frac</math></td><td>THE PERIODIC TABLE 3 4 5 6 7 Figure 1    Key Molar mass g mol <math>^{+}</math> Symbol Symbol Symbol Symbol Symbol Lithium Beryllium <math>^{-}</math> Sum <math>^{-}</math> Atomic number <math>^{-}</math> Symbol S</td></th<> | Na         Mg         41         Signosime         Silicon         Aluminium         Silicon         Plosphorus         Suphur         Chlorine           11         12         4         45         48         5         5         5         5         5         5         6         5         6         4 
       13         14         15         16         17         18         17         18         17         18         18         18         10         10         10         10         10         10         10         10         10         10         11         10         10         11         11         11         10         11         11         10         10         11         11         11         10         10         11         11         11         11         11         11         11         11         11   
   | Na         Mg         31         All         Sil. or         Phosphorus         Sulform         Chlorine           11         12         44         48         51         5         55         55         55         65         70  
   
  | Na         Mg         Sodium         Magnetisum         Alaminisum         Silicon         Phosphorus         Sulficon         Phosphorus         Sulficon         Phosphorus         Chlorine           11         12         40         45         48         51         55         55         55         59         59         63.5         63.4         70         73         75         79         80           K         Ca         SC         Ti         V         CT         Mn         Fe         CO         Ni         Cup         70         73         75         79         80           Poussium         Sandium         Trianium         Vanadium         Chonium         Maganese         Iron         Cobalt         Ni         Cup         AS         63.4         70         73         75         79         80           85         St         71         V         CT         Mn         Fe         CO         Ni         Copset         AS         63         AS  
   | Li         Be         Nitrogen         Nitrogen         Fluorine           3         4         5         6         7         8         9  
   
   | 7         9         Atomic number         Atomic number         Atomic number         B         C         N         O         F           Lithium         Beryllium         Saton         Nitrogen         Oxygen         Fluorine           3         4         5         6         7         8         9  
  | Hydrogen         Symbol         Symbol         11         12         14         16         19           Name         Atomic number         Atomic number         Boron         Carbon         Nirogen         Nirogen         Pluorine           3         4         5         6         7         8         9   | Hydrogen   | 1   Hydrogen   Symbol   Symbol   Name   Atomic number   Boron   Carbon   Nirogen   Symbol   Symbol   Nirogen   Pluorine   Boron   Symbol   Nirogen   Pluorine   Symbol   Symbol   Nirogen   Symbol   Sy | Hydrogen   | H   Hydrogen   Symbol   Symbol   Name   Atomic number   B   C   N   O   F   Eluciniam   Beryllium   3  | 1   2   5   6   7  
   | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   | 1   2   3   4   5   6   7   7   9  | THE PERIODIC TABLE 3 4 5 6 7 Group Hydrogen Symbol Symbol Lithium Beryllium 3 4 5 6 7 $\frac{1}{2}$ Atomic number $\frac{7}{3}$ Atomic number $\frac{1}{3}$ Atomi  | THE PERIODIC TABLE THE PERIODIC  | THE PERIODIC TABLE 3 4 5 6 7 Figure 1    Symbol    Name    Lithium Beryllium 3 4 5 6 7    Molar mass g mol   Symbol   Name    Atomic number    Atomic number   3 4 5 6 7    Key    Molar mass g mol   Symbol   Name   Atomic number   3 4 5 6 7    Name    Atomic number   Beron   Symbol   Name   Beron   Symbol   Name   Beron   Symbol   Name   Beron   Symbol   Name   Beron   Symbol   Beron   Symbol   Symbol   Name   Beron   Symbol   Symbol   Symbol   Name   Beron   Symbol   Symbol   Symbol   Symbol   Symbol   Name   Beron   Symbol   S  | THE PERIODIC TABLE 3 4 5 6 7 February Bright Symbol Symbol Lithium Beryllium 3 4 5 6 7 $\frac{1}{1}$ Atomic number $\frac{7}{3}$ Atomic number $\frac{11}{3}$ Beryllium $\frac$ | THE PERIODIC TABLE 3 4 5 6 7 Figure 1    Key Molar mass g mol $^{+}$ Symbol Symbol Symbol Symbol Symbol Lithium Beryllium $^{-}$ Sum $^{-}$ Atomic number $^{-}$ Symbol S  |
| 15   15   15   15   15   15   15   15  
  | Na   Mgg   Sodium Magnetium   Sandfurm   Sandfurm   Vamadium   V   
   
  | NA         Magnesian         27         28         31         28         31         23         355           Sodium         Magnesian         48         48         48         51         5         5         59         59         655         654         70         73         75         79         80           11         12         40         45         48         51         56         59         55         654         70         73         75         70         80           K         Colcium         Sandium         Chronium         Anadium         Chronium         Anadium         Chopat         27         70   
   
   
  | Magnetium         All Mignetium         All Mignetiu   
   
  | National National Majorstant   National Ma   
  | Na   
   
   | Na         Mg         Al         ST         Al         ST         Al         ST         35<  
  | Lithium Beryllium Beryllium  
   
  | 791112141619Lithium<br>LithiumBerylliumBoronCarbon<br>NitrogenNitrogen<br>OxygenPowin<br>Fluorine  
   | H  Hydrogen  Symbol  Name  Lithium Beryllium  Symbol  Atomic number  Molar mass g mol <sup>-1</sup> Symbol  Name  Atomic number  Atomic number  Boron  Atomic number   | Holder mass g mol <sup>-1</sup>   Symbol   Symb | 1   1   12   14   16   19   19   19   19   19   19   19  | Hydrogen   | 1   Hydrogen   | 1   2   5   6   7   
  | 1   2   6   7   7   6   7   1   1   1   1   1   1   1   1   1  | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  | THE PERIODIC TABLE 3 4 5 6 7 Group Hydrogen $\frac{1}{1}$ Key Molar mass g mol $\frac{1}{1}$ Molar mass g mol $\frac{1}{1}$ Name $\frac{7}{1}$ Molar mass g mol $\frac{7}{1}$ Name $\frac{7}{1}$ Name $\frac{7}{1}$ Molar mass g mol $\frac{7}{1}$ Name $\frac{7}$   | THE PERIODIC TABLE 3 4 5 6 7 Group $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$  | THE PERIODIC TABLE 3 4 5 6 7 Group $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$  
   | THE PERIODIC TABLE  3 4 5 6 7  Group  Key  Hydrogen Symbol Name  Lin Beyllium Beyllium Beyllium Beyllium Beyllium Atomic number  Ninogen Atomic number  Ninogen Atomic number  Rey  Name Atomic number Atomic number Atomic number B C N O FF B Boron Ninogen Rivogen  | THE PERIODIC TABLE  Group  Key  Hydrogen  Name  Lift Be   |
| Na   Mg   Na   Mg   Signatura   State   Stat   
  | Na   Mg   Ng   Ng   Ng   Ng   Ng   Ng   Ng   
   
  | Na   Mg   Mg   Sodium   Magnetistum   Sodium   Magnetistum   Sodium   Sodium   Magnetistum   Sodium   Magnetistum   Sodium   Magnetistum   Sodium   Magnetistum   Sodium   Magnetistum   Sodium   Sodiu  
   
   
   | Na   Mg   Mg   Sodium   Magnesium   Calcium   Scandium   Magnesium   Calcium   Scandium   Magnesium   Calcium   Scandium   Magnesium   Calcium   Magnesium   Calcium   Scandium   Magnesium   Calcium   Magnesium   Calcium   Magnesium   Magnesium   Calcium   Magnesium   Magnesium   Calcium   Magnesium   Magnesium   Calcium   Magnesium   
   
   | Na   Mgs   Mg   
   | Na         Mg           Na         Mg           Sodium         Magnesium         All         Sil         P         S         CI           Na         Mg         45         48         51         8         31         32         35.5           Na         Magnesium         Magnesium         Magnesium         Sil         41         Sil         P         S         CI           11         12         40         45         48         51         8         56         59         59         60.3         63.4         70  
   
  | Na   Magnesium   Manadium  
   | Li Be Boron Carbon Nitrogen Oxygen Fluorine   
   
   | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   | Hodar mass g mol*   Symbol   Symbol   Name   11   12   14   16   19   Lithium   Beryllium   Beryllium   Supplementation   Symbol   Name   Na   | Hydrogen  
  | H   Hydrogen   Symbol   Name   Name   Beryllium   Beryllium   Beryllium   Beryllium   Symbol   Nirogen   Symbol   Hydromic number   Boron   Nirogen   Symbol   Hydromic number   Boron   Nirogen   Symbol   Hydromic number   Hydr | 1   Nodar mass g mol'  | H   Hydrogen   Symbol   Name   Atomic number   Boron   Surbon   Symbol   Hinding   Boron   Symbol   Hydrogen   Symbol   Symbol   Hydrogen   Hydrogen   Hydrogen   Symbol   Hydrogen   Hyd           | 1   2   6   7   7   6   7   7   6   7   7   7  | 1   2   3   4   5   6   7  | 1 2 Group  
   | THE PERIODIC TABLE  Group  4 5 6 7  Key    Hydrogen   Hydrogen   Symbol   Name   Name   Buryllum   Buryllum   Buryllum   Suffer   Oxygen   Fluorine   Pluorine   Name   Name   Name   Pluorine   Pluor   | THE PERIODIC TABLE  Group  Rey  H Hydrogen  Name  Li Be Lithlim Beryllum  Atomic number  THE PERIODIC TABLE  3 4 5 6 7   Key  Molar mass g mol' Symbol  Name  Atomic number  Li Be Boron  Atomic number  Atomic number  Atomic number  Atomic number  Symbol Name  Atomic number  At | THE PERIODIC TABLE 3 4 5 6 7 Group $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$  | THE PERIODIC TABLE 3 4 5 6 7 Group $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$  | THE PERIODIC TABLE  3 4 5 6 7  Group    Hadrongen   Hydrogen   Symbol   Symbol   Name   Name   Atomic number   Beron   Strongen   Beron   Strongen   Stron |
| 3  
  | 3  
   
   
  | 1  
   
  | 3         4         5         6         7         8         9         9           Name statement of statement stat   
   
  | 3         4           Na         Mg         State of the st  
   
   | 3   
  | 3  
   
   | Li Be Atomic number B C N O F   
   
   | 7         9           Li         Be           B         C         N         O         F  | H  Hydrogen  Symbol  Name  Li Be  Atomic number  Symbol  Name  Atomic number  Be  No F   | Holder mass g mol*   Symbol   Symbol   Name   11   12   14   16   19   19   19   19   19   19   19   | Hadrogen   | Holder mass g moi*   Symbol   Symbol   Name   Holder mass g moi*   Holder mass g moi*   Symbol   Name   Holder mass g moi*   Name   N | 1   Hydrogen   Symbol   Name   Atomic number   B   C   N   O   F  
  | 1 2   Symbol   Symbol   Name   1   12   14   5   6   7   | 1 2 Group 3 4 5 6 7  | 1 2 Group   3 4 5 6 7  | THE PERIODIC TABLE  Group  Rey    H   
  | THE PERIODIC TABLE  Group  Rey    Hodge mass g mol*   Name   Name   Name   Name   Name   Name   B   C   N   O   F      Hodge   Name   N | THE PERIODIC TABLE  Group  Rey  Molar mass g mol' Hydrogen Symbol Name  Li Be Rey  Atomic number  Atomic number  THE PERIODIC TABLE  3 4 5 6 7   Key  Molar mass g mol' Symbol Name  B C N 0 F   | THE PERIODIC TABLE  3 4 5 6 7  Group  Key  Hydrogen Symbol Name  Li Be  Atomic number  B C N 0 F   | THE PERIODIC TABLE  3 4 5 6 7  Group  Key  Molar mass g mol' Symbol  Name  Li $\stackrel{9}{B}$ $\stackrel{11}{B}$ $\stackrel{12}{C}$ $\stackrel{14}{N}$ $\stackrel{16}{O}$ $\stackrel{19}{F}$ $\stackrel{19}{C}$  |
| Lithium   Lith   
  | Lithium   Beryllium   Beryllium   Lithium   Lithium   Lithium   Lithium   Richardium   Richard   
   
  | Lithium   Age  
   
  | Lithium   Baryllum   
   
  | Lithium         Beyllum         See         7 100         7 100         1 100         <  
   
  | Lifthium         Beryllium         Second and season         All sizes         Sizes         6 so discounding and season         Figure and season <td>Liftiium         Barylium         Boron         Airgen         Carbon         Ningen         Coxygen         Fluorine           33         44         34         35         3         4         7         8         9           Na         Mg         Airgensium         Magnesium         Magnesium         Airgensium         Airgensium         Airgensium         Signatum         Si</td> <td>1: D2   N   O   E  </td> <td>7 9 14 16 19 17 D. C. N. O. C. D. C. N. O. C. D. C. D.</td> <td>  Hydrogen   Symbol   Symbol   Name   11   12   14   16   19   17   D.   D.   C.   N1   O.   D.   C.   D.   D</td> <td>  Hydrogen   Symbol   Symbol   Name   11   12   14   16   19   17   19   19   19   19   19   19</td> <td>  Hodrogen   Symbol   Name   N</td> <td>  1   Nolar mass g mol<sup>-1</sup>   Symbol   Name   Name   11   12   14   16   19   17   19   19   19   19   19   19</td> <td>  Holar mass g mol<sup>-1</sup>   Hydrogen   Symbol   Symbol   Name   Name   11   12   14   16   19   17   19   19   19   19   19   19</td> <td>  1 2 Group</td> <td>  1 2   6 7                                  </td> <td>  1   2   Group   3   4   5   6   7    </td> <td>THE PERIODIC TABLE  Group  1 2 Group  Key  Hydrogen Symbol Name  Name  Atomic number  Atomic number  1 2 Group  3 4 5 6 7  6 7  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>THE PERIODIC TABLE  Group  Key  Hydrogen  Symbol  Name  Atomic number  Atomic number</td> <td>THE PERIODIC TABLE  Group  Key  Hydrogen Symbol Name  Atomic number  Atomic number  Atomic number  Atomic number  Atomic number  Atomic number  Atomic number</td> <td>THE PERIODIC TABLE  Group    Key   H   Wolar mass g mol'   Symbol   Name   Name   H   H   H   H   H   H   H   H   H  </td> <td>THE PERIODIC TABLE  Group  Rey  Molar mass g mol*  Symbol  Name  Atomic number  Atomic number  T: 0 9 14 5 6 7  Rey  Atomic number  Atomic number</td>  
  | Liftiium         Barylium         Boron         Airgen         Carbon         Ningen         Coxygen         Fluorine           33         44         34         35         3         4         7         8         9           Na         Mg         Airgensium         Magnesium         Magnesium         Airgensium         Airgensium         Airgensium         Signatum         Si  
  | 1: D2   N   O   E  
   
  | 7 9 14 16 19 17 D. C. N. O. C. D. C. N. O. C. D. | Hydrogen   Symbol   Symbol   Name   11   12   14   16   19   17   D.   D.   C.   N1   O.   D.   C.   D.   D   
  | Hydrogen   Symbol   Symbol   Name   11   12   14   16   19   17   19   19   19   19   19   19  | Hodrogen   Symbol   Name   N | 1   Nolar mass g mol <sup>-1</sup>   Symbol   Name   Name   11   12   14   16   19   17   19   19   19   19   19   19  | Holar mass g mol <sup>-1</sup>   Hydrogen   Symbol   Symbol   Name   Name   11   12   14   16   19   17   19   19   19   19   19   19  | 1 2 Group  | 1 2   6 7   
  | 1   2   Group   3   4   5   6   7  | THE PERIODIC TABLE  Group  1 2 Group  Key  Hydrogen Symbol Name  Name  Atomic number  Atomic number  1 2 Group  3 4 5 6 7  6 7  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | THE PERIODIC TABLE  Group  Key  Hydrogen  Symbol  Name  Atomic number  Atomic number   | THE PERIODIC TABLE  Group  Key  Hydrogen Symbol Name  Atomic number   
  | THE PERIODIC TABLE  Group    Key   H   Wolar mass g mol'   Symbol   Name   Name   H   H   H   H   H   H   H   H   H  | THE PERIODIC TABLE  Group  Rey  Molar mass g mol*  Symbol  Name  Atomic number  Atomic number  T: 0 9 14 5 6 7  Rey  Atomic number  Atomic number  |
| Lumin   Baylin   Ba  
   | Lithing Bry Diagnostical   Lithing Bry Diagnos  
   
   | Little   Beyline   Little   
   
   | Little   Beyline   Activity   A   
   
  | Lithium   Berylum   Service   Baron   Carbon   Nitrogen   Ovygen   Floring   Sodium   Magnetium   Managanee   Lithium   Strontium   Managanee   Carbon   M   
   
  | Lithium   Beryllian   Beryll   
   
   | Lithium   Beryllium   Beryllium   Samadium   Surface  
  | 61 01 +1 71 11   
   
  | 7 9  | Hydrogen Symbol Name 1 1 12 14 16 19   | Hologen  | H   Hydrogen   Symbol   Name   11   12   14   16   19  | H   Molar mass g mol <sup>-1</sup>   Symbol   Symbol   Name   11   12   14   16   19   
   | H   Hydrogen   Symbol   Name   11   12   14   16   19  | 1 2 Group 3 4 5 6 7  | 1 2 Group  | 1 2 Group  | THE PERIODIC TABLE  Group  Rey  Wolar mass g mol <sup>-1</sup> Hydrogen Symbol  Name  Name  Name  1 2 6 7   
  | THE PERIODIC TABLE  Group  1 2 Group  Key    H   Hydrogen   Symbol   Symbol   Name   Name   Name   Hydrogen   Hydrogen   Hydrogen   Hydrogen   Hydrogen   Hydrogen   Name   Hydrogen   Hydr | THE PERIODIC TABLE  Group  1 2 Group  Rey    H   Hydrogen   Symbol   Symbol   Name   N | THE PERIODIC TABLE  Group  1 2 Group  Key    Hadrogen   Symbol   Symbol   Name  | THE PERIODIC TABLE  Group    Key   H   Hydrogen   Symbol   Name   Name   Hydrogen   Hydr |
| Liting Be   Be   Liting Be   
  | Lithium Berjillem   September   Septembe   
   
  | Lij         Be         At a serial menilem         At a serial menilem </td <td>Lji         Beck         Atomic number         Atomic number</td> <td>Lji         Be         C         N         Ovygen         Funcion           13         34         A         4         8         9         9         9           13         34         AB         AB         C         N         N         0         F           13         34         AB         AB         S         5         5         6         7         7         8         9         9           NA         AB         AB         S         5         5         5         6         7         7         8         9         9           11         AB         AB         5         5         5         5         5         5         6         7         7         17         17         17         14         15         14         15         17         14         15         17         14         15         17         14         15         14         15         17         14         15         14         15         17         17         14         16         17         14         15         17         17         18         18         18         18         18         <td< td=""><td>  Lift   Be</td><td>Lithium         Becklium         Atomic number         Atomic number</td><td></td><td>01 71 11</td><td>Molar mass g mol¹ Symbol Name</td><td>Molar mass g mol<sup>-1</sup> Symbol Name</td><td>Molar mass g mol<sup>-1</sup> Symbol Name</td><td>Molar mass g mol<sup>-1</sup> Symbol Name</td><td>Molar mass g mol¹ Symbol Name</td><td>  1 2 Group 3 4 5 6 7                                    </td><td>  1 2 Group 3 4 5 6 7                                    </td><td>  1 2 Group</td><td>THE PERIODIC TABLE  Group  Rey  Wolar mass g mol<sup>-1</sup>  Symbol  Name  Name</td><td>THE PERIODIC TABLE  Group  Key  Hydrogen  Symbol  Name  Name</td><td>THE PERIODIC TABLE  Group  1 2 Group  Key  Hydrogen Symbol Name Name</td><td>THE PERIODIC TABLE  Group  Key  Hydrogen Symbol Name  Name</td><td>THE PERIODIC TABLE  Group  Rey  Hydrogen Symbol Name Name</td></td<></td>  
   
  | Lji         Beck         Atomic number   
   
  | Lji         Be         C         N         Ovygen         Funcion           13         34         A         4         8         9         9         9           13         34         AB         AB         C         N         N         0         F           13         34         AB         AB         S         5         5         6         7         7         8         9         9           NA         AB         AB         S         5         5         5         6         7         7         8         9         9           11         AB         AB         5         5         5         5         5         5         6         7         7         17         17         17         14         15         14         15         17         14         15         17         14         15         17         14         15         14         15         17         14         15         14         15         17         17         14         16         17         14         15         17         17         18         18         18         18         18 <td< td=""><td>  Lift   Be</td><td>Lithium         Becklium         Atomic number         Atomic number</td><td></td><td>01 71 11</td><td>Molar mass g mol¹ Symbol Name</td><td>Molar mass g mol<sup>-1</sup> Symbol Name</td><td>Molar mass g mol<sup>-1</sup> Symbol Name</td><td>Molar mass g mol<sup>-1</sup> Symbol Name</td><td>Molar mass g mol¹ Symbol Name</td><td>  1 2 Group 3 4 5 6 7                                    </td><td>  1 2 Group 3 4 5 6 7                                    </td><td>  1 2 Group</td><td>THE PERIODIC TABLE  Group  Rey  Wolar mass g mol<sup>-1</sup>  Symbol  Name  Name</td><td>THE PERIODIC TABLE  Group  Key  Hydrogen  Symbol  Name  Name</td><td>THE PERIODIC TABLE  Group  1 2 Group  Key  Hydrogen Symbol Name Name</td><td>THE PERIODIC TABLE  Group  Key  Hydrogen Symbol Name  Name</td><td>THE PERIODIC TABLE  Group  Rey  Hydrogen Symbol Name Name</td></td<>   
   
  | Lift   Be  
   
   | Lithium         Becklium         Atomic number  
  |  
   
  | 01 71 11   | Molar mass g mol¹ Symbol Name  | Molar mass g mol <sup>-1</sup> Symbol Name   | Molar mass g mol <sup>-1</sup> Symbol Name  
  | Molar mass g mol <sup>-1</sup> Symbol Name   | Molar mass g mol¹ Symbol Name  | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  | 1 2 Group  
   | THE PERIODIC TABLE  Group  Rey  Wolar mass g mol <sup>-1</sup> Symbol  Name  Name  | THE PERIODIC TABLE  Group  Key  Hydrogen  Symbol  Name  Name   | THE PERIODIC TABLE  Group  1 2 Group  Key  Hydrogen Symbol Name Name   | THE PERIODIC TABLE  Group  Key  Hydrogen Symbol Name  Name   
   | THE PERIODIC TABLE  Group  Rey  Hydrogen Symbol Name Name  |
| 1   15   16   18   18   18   18   18   18   18   
  | 1   1   1   1   1   1   1   1   1   1  
   
   
  | 1   1   1   1   1   1   1   1   1   1  
   
  | Lithum Beryllium   Serollium Magnesium Nativibul Novibul Nov   
   
  | Lithiam Beryllium   Beryllium   Beryllium   Beryllium   Standam   Yurium   
   
   | Lithium   Beryllium   Beryll  
  | 1   Be   Be  
  | Nome   
   
  |  
   | Molar mass g mol <sup>-1</sup> Symbol  | Molar mass g mol¹ Symbol   | Molar mass g mol <sup>-1</sup> Symbol  | Key  Molar mass g mol <sup>-1</sup> Symbol   | Key  Molar mass g mol <sup>-1</sup> Symbol  
  | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  | THE PERIODIC TABLE  Group  3 4 5 6 7  
  | THE PERIODIC TABLE  1 2 Group  3 4 5 6 7  Key  | THE PERIODIC TABLE  Group  Rey  Molar mass g mol <sup>-1</sup> Symbol  | THE PERIODIC TABLE  1 2 Group  3 4 5 6 7  Key  | THE PERIODIC TABLE  Group  Rey  Wolar mass g mol <sup>-1</sup> Symbol  Symbol  |
| Lij   Be   
  | Library   Libr   
   
  | Lithium   Beoylhum   Recolum   Rundum  
   
   
   | Libiuan Beryllium   Sandium Namadium Chromium Mangarea   Libiuan Beryllium Sandium Namadium Chromium Mangarea   Libiuan Beryllium Sandium Namadium Chromium Mangarea   Libiuan Beryllium Sandium Namadium Chromium Mangarea   Libiuan Beryllium Sandium Namadium Chromium Mangarea   Libiuan Beryllium Sandium Namadium Chromium Mangarea   Libiuan Beryllium Sandium Namadium Chromium Mangarea   Libiuan Beryllium Sandium Namadium Chromium Mangarea   Libiuan Namadium Chromium Namadium N  
   
   | Lithium   Beryllum   Beryllum   Activities   Lithium   Barkin   Case   Lithium   Barkin   Case   Lithium   Barkin   Case   Cas  
   | $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$   
   
  | 1   1   1   1   1   1   1   1   1   1  
   | Name  
   
   |  | Molar mass g mol <sup>-1</sup>   
   | Molar mass g mol <sup>-1</sup>   | Key  Molar mass g mol <sup>-1</sup>  | Key  Molar mass g mol <sup>-1</sup>  | Key  Molar mass g mol <sup>-1</sup>  | 1 2 Group 3 4 5 6 7   
  | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  | THE PERIODIC TABLE  Group  Rey  Hydrogen  Hydrogen  A 5 6 7  Key  Hydrogen  Countral   | THE PERIODIC TABLE  1 2 Group  3 4 5 6 7  Key  Hydrogen  Ander mass g mol <sup>1</sup> Scrubal  
  | THE PERIODIC TABLE  Group  Key  Hydrogen  Molar mass g mol <sup>-1</sup> Key  Key  Key  Molar mass g mol <sup>-1</sup> Hydrogen  Standard  Key   | THE PERIODIC TABLE  1 2 Group  3 4 5 6 7  Key  Hydrogen  Ander mass g mol**  Key  Molar mass g mol**  Ander mass g mol**  Hydrogen  Scratcal   | THE PERIODIC TABLE  Group  Key  Hydrogen  Key  Key  Key  Hydrogen  Grout-al  Key  Key  Hydrogen  Ander mass g mol <sup>-1</sup> Franched  Key  |
| 1  
  | Lichium   Perplium   
   
  | 1  
   
   
  | Table   Tabl   
   
  | 1  
  | Table
  Be   
   | 1   12   13   14   15   14   15   14   15   15   15   
   
  | omply Month  
   
  |  | Molar mass g mol <sup>-1</sup>   | Molar mass g mol <sup>-1</sup>   | Key Molar mass g mol <sup>-1</sup>   | Key Molar mass g mol <sup>-1</sup>   
   | Key Molar mass g mol <sup>-1</sup>   | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  | THE PERIODIC TABLE  1 2 Group  3 4 5 6 7  
  | 1 2 Group 3 4 5 6 7  | THE PERIODIC TABLE  Group  4 5 6 7  Key  H Molar mass g mol¹   | 1 2 Group 3 4 5 6 7  | THE PERIODIC TABLE  Group  Rey  Molar mass g mol¹  Hydrogen  Molar mass g mol¹  
  |
| 1   2   2   2   2   2   2   2   2   2  
  | 1   15   15   15   15   15   15   15   
   
   
  | 1   12   13   14   15   15   14   15   15   14   15   15   
   
  | 1   1   1   1   1   1   1   1   1   1  
   
  | 1   1   2   4   4   4   4   4   4   4   4   4  
   
  | Lithium Beryllium   Secondam   Yamadum   Yam   
   
   | 1   Be   Lithium   Beryllium  
  | Symbol   
   
  | Symbol   | Molar mass g mol <sup>-1</sup>   | Molar mass g mol <sup>-1</sup>   | Key  Molar mass g mol <sup>-1</sup>  | Key Molar mass g mol <sup>-1</sup>   
   | Key Molar mass g mol <sup>-1</sup>   | 1 2 Group 3 4 5 6 7  Key  Molar mass g mol <sup>-1</sup>   | 1 2 Group 3 4 5 6 7  Key  Molar mass g mol <sup>-1</sup>   | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7   
  | THE PERIODIC TABLE  1 2 Group  3 4 5 6 7  Key  Molar mass g mol <sup>-1</sup>  | THE PERIODIC TABLE  Group  4 5 6 7  Key  Molar mass g mol <sup>-1</sup>  | THE PERIODIC TABLE  1 2 Group  3 4 5 6 7  Key  Molar mass g mol <sup>-1</sup>  | THE PERIODIC TABLE  1 2 Group  3 4 5 6 7  Key  Molar mass g mol <sup>-1</sup>   
  |
| 1   1   1   1   1   1   1   1   1   1  
  | 1   2   2   2   2   2   2   2   2   2  
   
   
  | Symbol   S   
   
  | Symbol   S   
   
  | Symbol   S   
  | Francisco   Fran   
   
   | Symbol   Soliton   Beryllium  
  | Symbol   
   
  | Symbol   | Molar mace or mol <sup>-1</sup>  | Molar mass or mol-1  
   | Key Majar mase a mal   | Key Malar mass q mal-1   | Key Malar mass q mol <sup>-1</sup>   | 1 2 Group 3 4 5 6 7  Key  Molecuses a mod'   | 1 2 Group 3 4 5 6 7  Key  Molecuses a mod'  
  | 1 2 Group 3 4 5 6 7  | THE PERIODIC TABLE  1 2 Group  3 4 5 6 7  Key  Molecuses a mol**   | 1 2 Group 3 4 5 6 7  | THE PERIODIC TABLE  1 2 Group  3 4 5 6 7  Key  Molecuses a mod'  Molecuses a mod'  H  
  | 1 2 Group 3 4 5 6 7  | THE PERIODIC TABLE  1 2 Group  3 4 5 6 7  Key  Molecuses a mode*   |
| Flydrage   
   | Figure   F  
   
   | Figure   F  
   
   | Hydrogen  
   
  | Hydrogen   
   
   | Hydrogen  
   
   | Hydrogen   1  
  | Symbol   
   
  | Symbol   |  | Ney .  | Key   
  | Key  | Key  | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  
   | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  | THE PERIODIC TABLE  1 2 Group  3 4 5 6 7   | 1 2 Group 3 4 5 6 7  
   | THE PERIODIC TABLE  1 2 Group  3 4 5 6 7   |
| Hydrogen   
   | Flydrogen   Flyd  
   
   | Flydregate   Fly  
   
   | Hydrogan  
   
   | Hydrogen   Symbol   Name   N  
   
   | Hydrogen  
   
   | Hydrogen  
  | Symbol   
   
  | Molar mass g mol<br>Symbol   |  | Wey West   
   | Key  | Key  | Key  | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7   
  | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  | 1       2       Group       3       4       5       6       7  | 1 2 Group 3 4 5 6 7   
  | 1       2       Group       3       4       5       6       7  | THE PERIODIC TABLE  1 2 Group  3 4 5 6 7   |
| Hydrogen   Symbol  
   | Production  
   
   | 1   1   1   1   1   1   1   1   1   1   
   
   
   | Symbol   S  
   
   | Flydrogen   Flyd  
   | Flydrogen   
   
  | Flydrogen  
   | Molar mass g mol¹ Symbol  
   
   | Molar mass g mol¹ Symbol  
  |  |  |  |  |  
   | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  
   | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  |
| Harmonic   
   | Handle   H  
   
   | Hydrogen   Symbol   
   
  | Hydrogan   
   
  | Hydrogan   Symbol  
   
   | Hydrogan  
   
  | Hydrogen   
   | H Hydrogen Symbol   
   
   | Key  |  
   |  |  |  |  | 1 2 Group 3 4 5 6 7   
  | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  | THE PERIODIC TABLE  1 2 Group 3 4 5 6 7  | THE PERIODIC TABLE  1 2 Group  3 4 5 6 7  
  | THE PERIODIC TABLE  Group  3 4 5 6 7   | THE PERIODIC TABLE  Group  3 4 5 6 7   | THE PERIODIC TABLE  Group  3 4 5 6 7   |
| Hydrogen   Symbol  
   | Hydrogen   Symbol   
   
  | 1  
   
   
  | Hydrogen   Symbol  
   | Hydrogan   Symbol   
   
  | Figure   F   
   
   | Hand  
   | Key   
   
   | Key   Hadrogen   Symbol  |  | priod  | riod .   
   |  |  | Group 3 4 5 6 7  | Group 3 4 5 6 7  | Group 3 4 5 6 7   
  | THE PERIODIC TABLE  Group  3 4 5 6 7   | THE PERIODIC TABLE  Group  3 4 5 6 7   | THE PERIODIC TABLE  Group  3 4 5 6 7   | THE PERIODIC TABLE  Group  3 4 5 6 7  
  | THE PERIODIC TABLE  Group  3 4 5 6 7   |
| H  
  | Figure   Figure   Symbol   S   
   
  | 1  
   
   
  | 1   1   1   1   1   1   1   1   1   1  
   
  | 1  
   
  | Figure   F   
   | 1   
   
  | Key  
   
  | Hydrogen Symbol  |  | riod   | sriod  | riod   
   |  | Group 3 4 5 6 7  | Group 3 4 5 6 7  | Group 3 4 5 6 7  | THE PERIODIC TABLE  Group  3 4 5 6 7  
  | THE PERIODIC TABLE  Group  3 4 5 6 7   | THE PERIODIC TABLE  Group  3 4 5 6 7   | THE PERIODIC TABLE  Group  3 4 5 6 7   | THE PERIODIC TABLE  Group  3 4 5 6 7  
  |
| 14   14   15   15   15   15   15   15  
  | 1  
   
   
  | 1  
   
  | Hydrogan   
   
   | Hydrogan  
  | Hydrogan           
   
   | Hydrogan  
   | H Hydrogen Symbol   
   
   | Hydrogen Symbol   
  |  | riod   | riod   | riod   |  
   | Group 3 4 5 6 7  | Group 3 4 5 6 7  | Group 3 4 5 6 7  | THE PERIODIC TABLE  Group  3 4 5 6 7   
                       | THE PERIODIC TABLE  Group  3 4 5 6 7   | THE PERIODIC TABLE  Group  3 4 5 6 7   | THE PERIODIC TABLE  Group  3 4 5 6 7   | THE PERIODIC TABLE  Group  3 4 5 6 7   |
| Harmon   H   
  | Handle   H   
   
  | H   H   H   H   H   H   H   H   H   H  
   
   
  | Hydrogen   Hydrogen   Symbol   
  | 1   1   1   1   1   1   1   1   1   1  
   
  | Holytogen   Symbol   
   
  | Flythogen   Symbol   
  | Key  
   
  | The Molar mass g mol¹ Symbol   |  | riod   
   | riod   | riod   |  | Group 3 4 5 6 7  | Group 3 4 5 6 7   
  | Group 3 4 5 6 7  | THE PERIODIC TABLE  Group  3 4 5 6 7   | THE PERIODIC TABLE  Group  3 4 5 6 7   | THE PERIODIC TABLE  Group  3 4 5 6 7  
  | THE PERIODIC TABLE  Group  3 4 5 6 7   | THE PERIODIC TABLE  Group  3 4 5 6 7   |
| Hydrages   
  | Hydrogen   Symbol  
   
   | Hydrogea   Symbol   
   
   
  | 1  
   
  | Hydrogram   Symbol   
   | Hydrogen   Symbol   Symbol   Symbol   Molar mise gmol   Molar mise gmol   Symbol   Molar mise gmol   Molar mi   
   
   | 1   
  | Key  H Hydrogen Symbol   
   
  | Key  |   
  | riod   | riod   | riod   |  | Group 3 4 5 6 7  
   | Group 3 4 5 6 7  | Group 3 4 5 6 7  | THE PERIODIC TABLE  Group  3 4 5 6 7   | THE PERIODIC TABLE  Group  3 4 5 6 7   
   | THE PERIODIC TABLE  Group  3 4 5 6 7   | THE PERIODIC TABLE  Group  3 4 5 6 7   | THE PERIODIC TABLE  Group  3 4 5 6 7   |
| Handle   H   
  | H  
   
  | 1   1   2   3   3   3   3   3   3   3   3   3  
   
   
  | 1  
   
  | 1   1   1   1   1   1   1   1   1   1  
   
  | Figure   F   
   | Hydrogan  
   
  | Key  
   
  | Hydrogen Symbol  |  |  |  |  
   |  | Crosses 3 A 5 A 7  | Caronina A A A A A A A A A A A A A A A A A A A   |  | THE PERIODIC TABLE  3 4 5 6 7   
  | THE PERIODIC TABLE   | THE PERIODIC TABLE   | THE PERIODIC TABLE   | THE PERIODIC TABLE  
  |
| H   H   Symbol   Sy  
   | 1   
   
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   | 1   
   
   | Hydrogan  
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 Symbol  
  | Hydrogen   
   | Key   
   
   | Key  Hydrogen Symbol  
  |  |  |  |  |  
   |  |  |  | THE PERIODIC TABLE   
   | THE PERIODIC TABLE   | THE PERIODIC TABLE   | THE PERIODIC TABLE   | THE PERIODIC TABLE   |
| 1  
  | Hydrogen   
   
   | Handle   H  
   
   
   | Figure   F  
   | 1   2   3   4   4   4   4   4   4   4   4   4   
   
   | 1   1   2   2   2   2   2   2   2   2   
   
  | Hydrogen   
   | Key  Hydrogen Symbol Symbol   
   
   | Key   
  | diono di C   | o c + c drond  | o c + c diagram o c + c  | o c + c drond  | o c + c dno.c 7 I  
   |  |  |  | THE PERIODIC TABLE   
                         | THE PERIODIC TABLE   | THE PERIODIC TABLE   | THE PERIODIC TABLE   | THE PERIODIC TABLE   |
| Hologogy   
   | 1   2   2   4   5   6   7   7   7   7   7   7   7   7   7   
   
   | 1   2   2   3   4   5   6   7   7   1   1   1   1   1   1   1   1   
   
   
   | 1   2   2   3   4   5   6   7   7   1   1   1   1   1   1   1   1   
   
   | 1   2   3   4   5   6   7   7   1   1   1   1   1   1   1   1   
   
   | 1   2   2   3   4   5   6   7   7   1   1   1   1   1   1   1   1   
   
  | 1   2   2   3   4   5   6   7   7   1   1   1   1   1   1   1   1  
   | 1 2 Group 3 4 5 6 7   
   
   | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  
   | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  |  |  |   
  | THE PERIODIC TABLE   | THE PERIODIC TABLE   | THE PERIODIC TABLE   | THE PERIODIC TABLE  
  | THE PERIODIC TABLE   |
| 1   2   2   2   2   2   2   2   2   2  
  | Hydrogen   
   
   
  | Handle   H   
   
  | Holytographic   Symbol   Sym   
   
  | Handle   H   
  | 1   2   2   3   4   5   6   7   7   1   1   1   1   1   1   1   1  
   
   | 1   2   2   3   4   5   6   7   7   4   4   5   6   7   7   4   7   7   7   7   7   7   7   
  | 1 2 Group 3 4 5 6 7  
   
  | 1 2 Group 3 4 5 6 7  Key Hydrogen Symbol   
   | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7   
  |  |  |  | THE PERIODIC TABLE  
  | THE PERIODIC TABLE   | THE PERIODIC TABLE   | THE PERIODIC TABLE   | THE PERIODIC TABLE   |
| 1   2   2   2   2   2   2   2   2   2  
  | Hydrogen   
   
   | 1   2   2   3   4   5   6   7   7   7   7   7   7   7   7   7   
   
   
   | Handle   H  
   
   | 1   2   2   3   4   5   6   7   7   7   7   7   7   7   7   7   
   | 1   2   2   3   4 
 5   5   6   7   7   7   7   7   7   7   7   7   
  | 1   2   2   3   4   5   6   7   7   4   4   5   6   7   7   4   4   5   6   7   7   4   7   4   7   7   4   7   7  
   
   | 1 2 Group 3 4 5 6 7   
   
   | 1 2 Group 3 4 5 6 7  Key Hydrogen Symbol Symbol  | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7  | 1 2 Group 3 4 5 6 7   
  | 1 2 Group 3 4 5 6 7  |  |  |  | THE PERIODIC TABLE   
   | THE PERIODIC TABLE   | THE PERIODIC TABLE   | THE PERIODIC TABLE   | THE PERIODIC TABLE   
   |

