

Candidate Name	Centre Number	Candidate Number
		4



Entry Level

740/01

SCIENCE
(Single Award)

A.M. THURSDAY, 6 March 2008

1 hour

Examiner's Use Only

Total Marks	
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INSTRUCTIONS TO CANDIDATES

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer **all** questions.

If you have difficulty in reading a question, put up your hand and the teacher-in-charge will read it to you.

INFORMATION FOR CANDIDATES

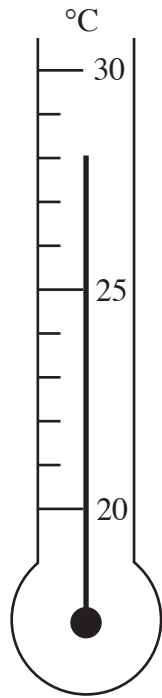
The number of marks is given in brackets at the end of each question or part-question.

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Answer **all** questions.

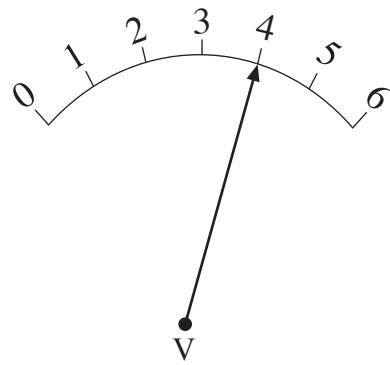
1. Look at the drawings of the apparatus shown below. On the correct line under each drawing, write in the reading shown on the apparatus. [4]

Thermometer



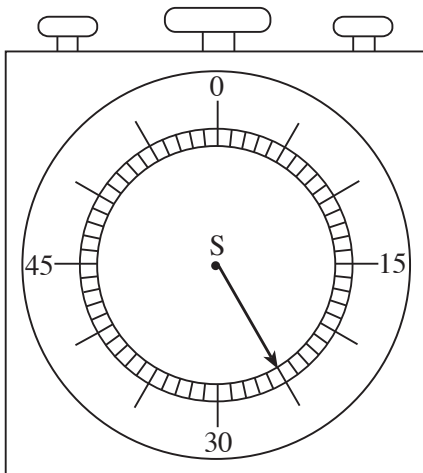
..... °C

Voltmeter



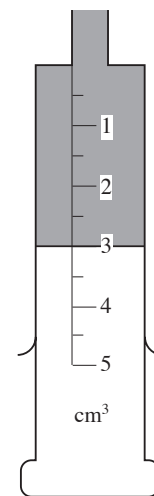
..... V

Stop clock



..... s

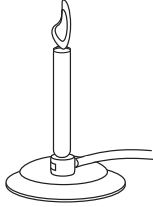


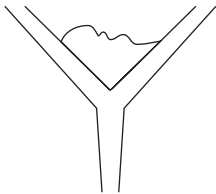
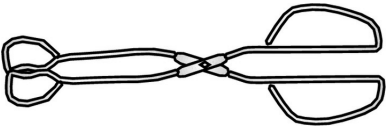
Syringe



..... cm³



2. (a) Match the drawings of the apparatus to the correct label using a line. One has been completed for you. [4]

Tripod	
Bunsen burner	
Test tube	
Tongs	
Filter funnel	



(b) Use the words in the box to answer the questions below.

temperature
heat energy
thermometer
degrees celsius °C

(i) This is used to measure temperature. [1]

.....

(ii) This is the unit used to measure temperature. [1]

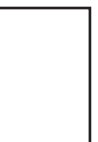
.....

(iii) This describes how hot something is. [1]

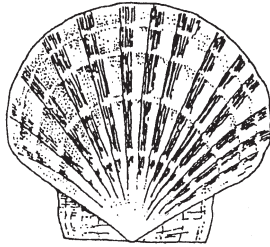
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(iv) This escapes from something when it is hotter than its surroundings. [1]

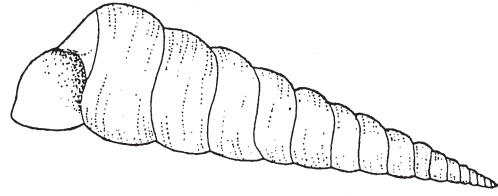
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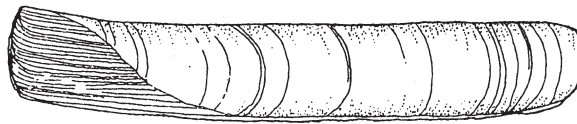
3. The drawings below show **three (3)** different shells.



A



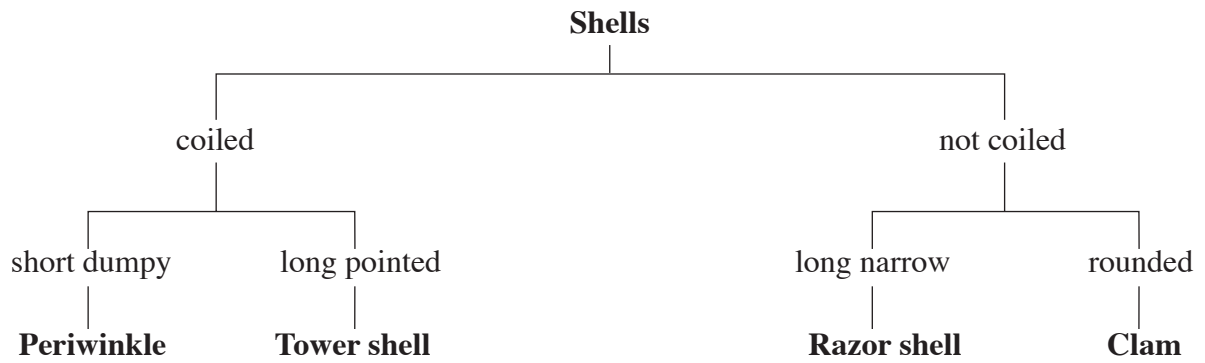
B



C

Use the chart below to name the **three (3)** shells.

[3]



Shell A is a

Shell B is a

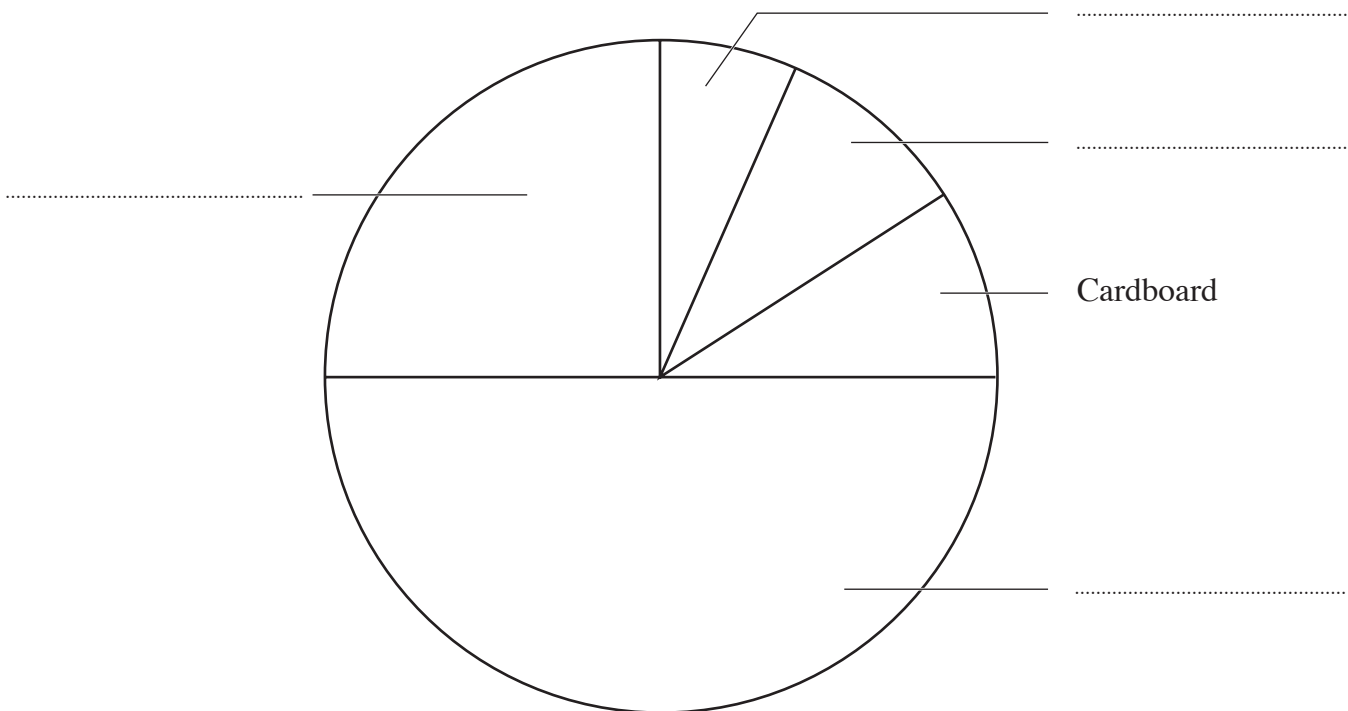
Shell C is a



4. Pupils in a school wanted to find out the different types of waste the school was producing. The results are shown in the table below.

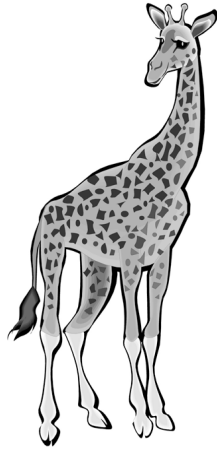
Type of waste	Percentage produced
Paper	25%
Cardboard	10%
Plastic	10%
Glass	5%
Food waste	50%

Plot this information on the pie chart shown below. One has been completed for you. [4]

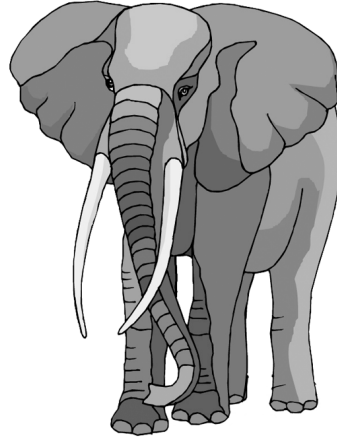


5. Look carefully at the drawings of the animals below.

Giraffe



Elephant



Complete the table with a **cross (X)** in the box for the features that apply to each animal.

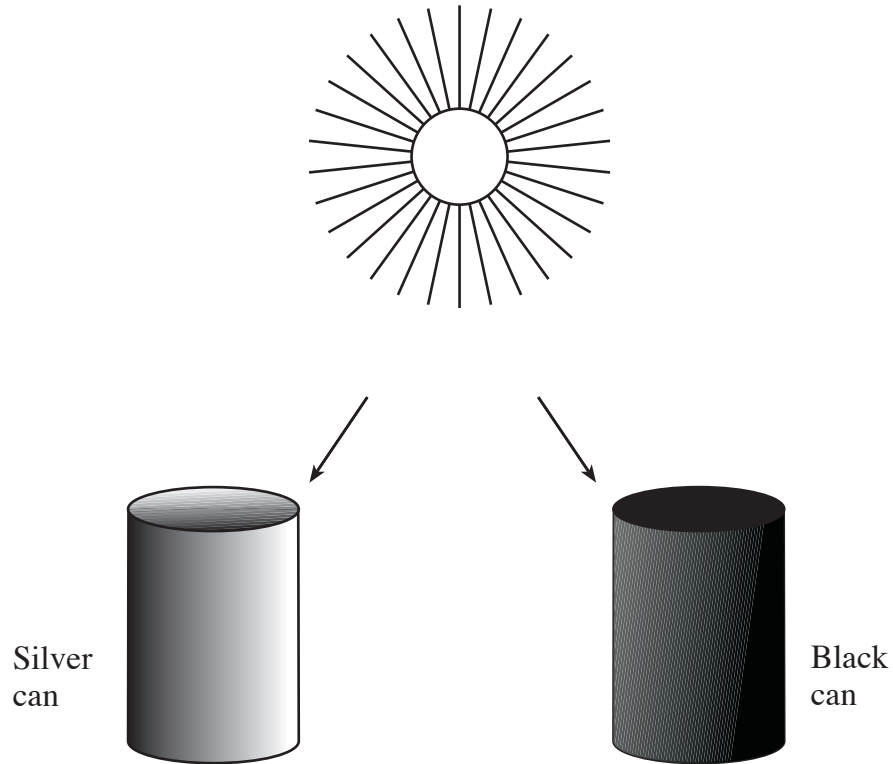
Some have been completed for you.

[6]

Feature	Giraffe	Elephant
Big ears		X
Trunk		
Thin legs		
Thick legs		
Long neck		
Long tail		
Tusks on head		
Big body		X



6. John and Andrea were finding out which metal can, black or silver, heated up most in the sunlight. They set up an experiment with two identical metal cans, one painted black, as shown below.



Water was put in the cans. The cans were then left on the same desk, in the sunlight, for the same time and the water temperatures were taken at the same times.

- (a) What **three (3)** things must they keep the same in order to make the investigation a fair test? [3]

.....

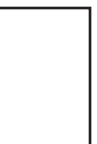
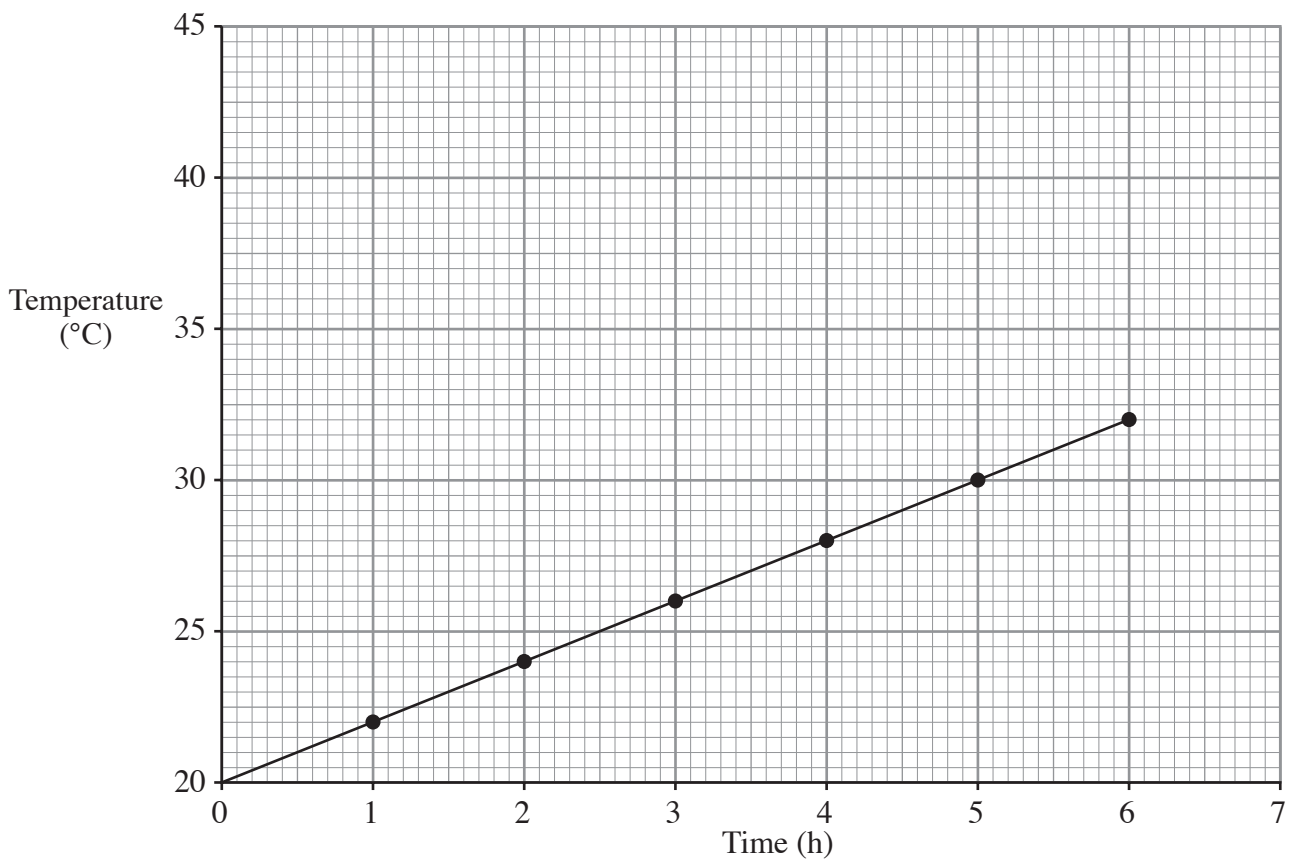
.....

.....



- (b) The results of the investigation are shown in the table below. Plot the results for the black can on the graph paper. Remember to join the points with a line. The graph for the silver can has been drawn for you. [6]

	Time in hours						
Can type	Start	1	2	3	4	5	6
Silver can	20°C	22°C	24°C	26°C	28°C	30°C	32°C
Black can	20°C	24°C	28°C	32°C	36°C	38°C	39°C



(c) What was the temperature of the black can at 4.5 hours? [1]

.....

(d) Estimate the temperature of the silver can at 7 hours. [1]

.....

(e) By how much did the temperature of the silver can go up in 5 hours? [1]

.....

(f) Which can gained the most heat, the black can or the silver can? [1]

.....

(g) What would be the hottest that the water in the cans will go up, and why? [2]

.....

.....

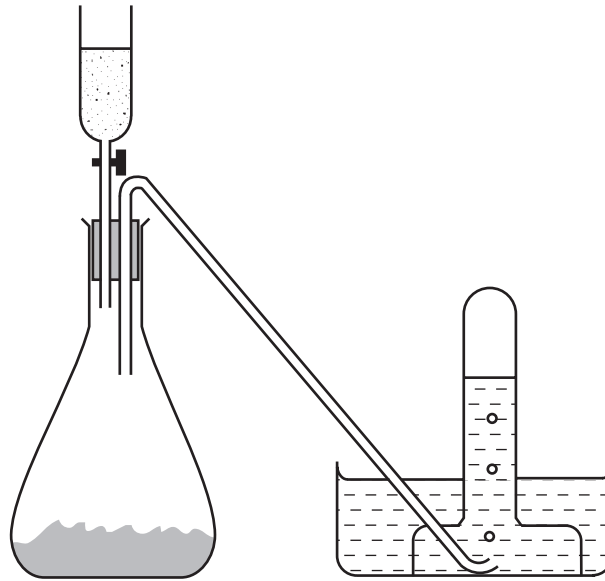


7. Look carefully at the two drawings of apparatus set up for an experiment.

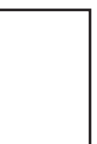
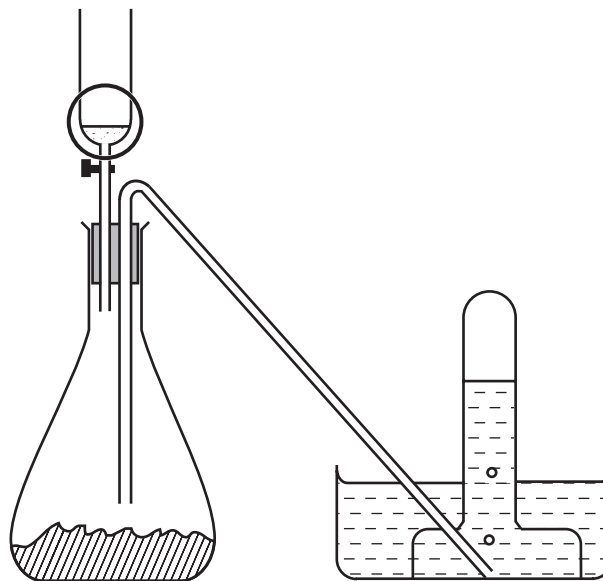
There are **six (6)** differences between Drawing A and Drawing B. One of these has been circled for you on Diagram B. Draw a neat circle around the other **five (5)** differences on Drawing B.

[5]

DRAWING A



DRAWING B



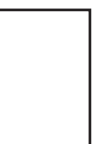
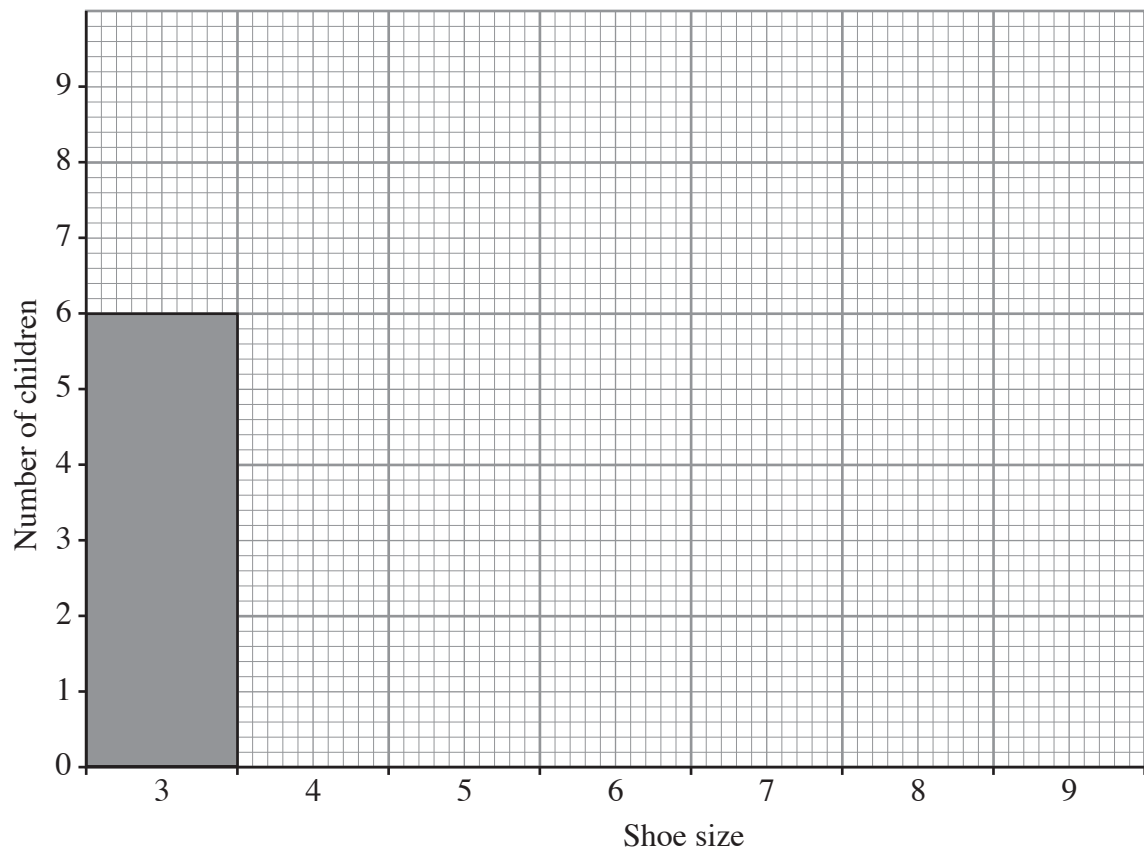
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8. The pupils in a class were investigating the differences in their shoe sizes. The results are shown in the table below:

Shoe size	3	4	5	6	7	8	9
Number of children	6	4	6	7	5	3	2

- (a) Plot these results on the graph paper below. The first one has been done for you.

[6]



(b) How many children wore size 9 shoes? [1]

.....

(c) Which shoe size was the most common in this class? [1]

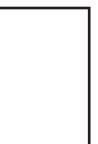
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(d) Which **two (2)** shoe sizes were worn by the same number of children? [2]

..... and

(e) Which shoe size was the least common? [1]

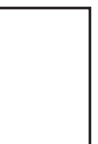
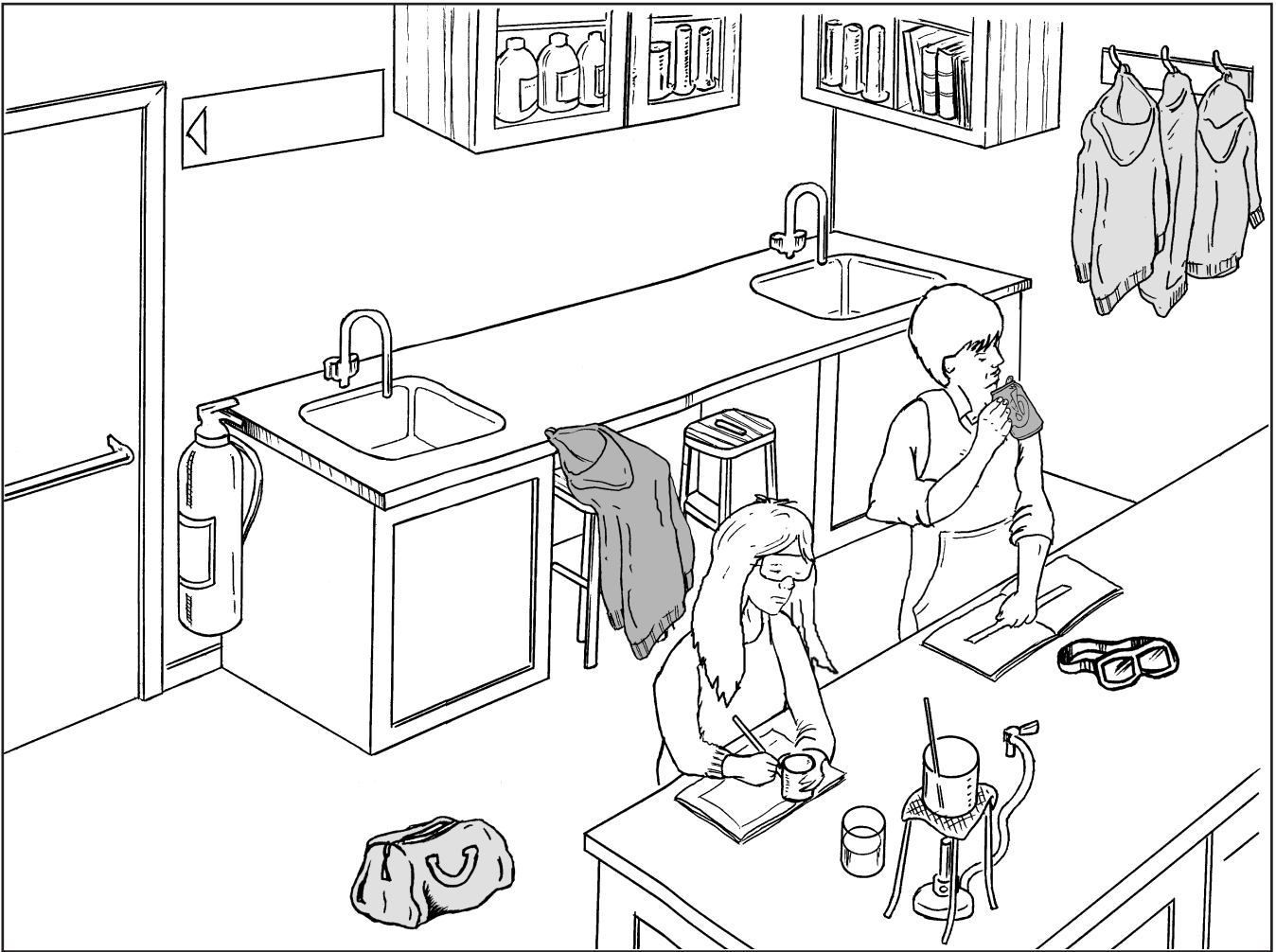
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9. Look carefully at the drawing of a science lesson. The children are not carrying out their experiment in a safe manner.

Neatly circle **five (5)** things they are doing which are not safe.

[5]

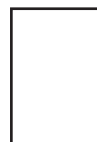


10. Look carefully at the list of apparatus below and decide which is **the best** to use during an experiment. One has been completed for you. [6]

Apparatus:

Bunsen burner	Tongs	Metre rule	Goggles
Ruler	Stop clock	Ammeter	Syringe
Thermometer	Spatula	Test tube	Beaker

Use in experiment	Best apparatus
Protecting the eyes	Goggles
Measuring the length of the hall	
Timing an experiment	
Taking the temperature	
Measuring 1cm ³ of water	
Adding a little powder to a test tube	



11. Your local shop is selling Sparkle, a new washing powder.

On the television they claim it is much better than the one you usually buy.

Explain how you would carry out a fair test to see which one is the best.

You may write or draw what you would do in the space below.

[3]

