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OCR
RECOGNISING ACHIEVEMENT

Gateway Science

OCR GCSE J644 Chemistry Unit B645

Skills Assessment Record

Centre Name	

Centre Number		**Candidate Number**	

Candidate Name	

The Moderator appointed by OCR will require a completed copy of this Skills Assessment Record for each of the candidates whose work is required for moderation. The assessed Science in the News report and cover sheet should be enclosed within this Skill Assessment Record for each of these candidates.

Centres will need to keep adequate records of the attainment of all of their candidates for GCSE Gateway Science, and may use this form as a means of keeping records. However, centres are free to devise and develop their own record-keeping systems, providing that such a system will (if required by OCR for moderation purposes) allow each candidate's performance in all of the Can-Do tasks and for the assessed Science in the News report to be verified by a Moderator.

Summary of Skills Assessment Attainment

Can-Do Tasks	Mark out of **24**		
Science in the News Report	Mark out of **36**		
Transfer this total to the MS1 form and submit by January 10th in the year of entry for this unit	**Total mark out of 60**		
Name of teacher completing this form			
Date of completion and submission of marks		Date	

Candidate Name	Centre No	Candidate No

		Basic : 1 point Can-Do Tasks	Date	Pt
1	C1a	I can heat a solid substance safely.		1
2	C1a	I can test for carbon dioxide.		1
3	C1c	I can test whether or not a substance dissolves in a solvent.		1
4	C1h	I can accurately measure the temperature in ^{o}C		1
5	C1h	I can measure the mass of an object using an electronic balance.		1
6	C2b	I can safely heat a sample of a chemical in a test-tube.		1
7	C2c	I can mark on a map of the world ten locations of Earthquakes or Volcanoes.		1
8	C2e	I can distinguish, using experiments, between a sample of aluminium and iron.		1
9	C2h	I can measure the volume of a gas produced in a reaction using a gas syringe.		1
10	C2h	I can measure the reaction time for a suitable reaction.		1
11	C2h	I can measure the volume of a liquid using a measuring cylinder.		1
12	C5a	I can measure the mass of a sample to the required level of precision.		1
13	C5b	I can measure changes in electrode mass.		1
14	C5c	I can measure amounts of liquid to the nearest division on a measuring cylinder.		1
15	C5d	I can read a burette to the nearest scale division.		1
16	C5e	I can measure the amount of gas produced in a reaction.		1
17	C5h	I can carry out a simple precipitation reaction.		1
18	C6a	I can identify samples of hydrogen and oxygen.		1
19	C6d	I can test for chlorine gas with damp blue litmus paper.		1

		Intermediate : 2 point Can-Do Tasks	Date	Pts
20	C1e	I can test for unsaturation.		2
21	C2a	I can make a sample of paint with thermochromic properties.		2
22	C2d	I can extract a sample of copper from a copper ore such as malachite.		2
23	C2d	I can purify a sample of impure copper using the electrolysis of aqueous copper sulphate.		2
24	C5a	I can investigate the mass changes during a thermal decomposition reaction.		2
25	C5b	I can set up a simple electrolysis circuit.		2
26	C5c	I can dilute a solution by a specified amount.		2
27	C5d	I can accurately deliver a known amount of liquid using a pipette.		2
28	C5h	I can prepare a dry sample of an insoluble salt by precipitation.		2
29	C6a	I can collect a sample of gas.		2
30	C6g	I can prepare a sample of a cold cream (emulsion).		2

		Advanced : 3 point Can-Do Tasks	Date	Pts
31	C1g	I can carry out an experiment to show that combustion of a hydrocarbon in a plentiful supply of air produces carbon dioxide and water.		3
32	C1h	I can do an experiment to find the energy output per gram of a liquid fuel.		3
33	C2a	I can use a natural product to permanently dye a piece of cotton.		3
34	C2b	I can make and test samples of concrete for their strength.		3
35	C2e	I can carry out an investigation to find the optimum conditions for corrosion of a named metal.		3
36	C2g	I can measure the rate of a reaction that produces a gas.		3
37	C2h	I can investigate a reaction to find a suitable catalyst.		3
38	C2h	I can use experimental results such as volume of gas produced against time to determine the rate of reaction.		3
39	C5b	I can set up an electrolysis experiment, controlling both current and time.		3
40	C5d	I can carry out a simple titration and get two consistent results within +/- 0.2cm^3.		3
41	C5e	I can set up and perform an experiment to measure the amount of gas produced in a reaction.		3
42	C5h	I can identify an unknown ion by using a precipitation reaction and explain it using an ionic equation.		3
43	C6a	I can make a simple fuel cell (Nuffield sample scheme).		3
44	C6f	I can compare the hardness of two different water samples using soap solution.		3
45	C6h	I can prepare a sample of aspirin from salicylic acid and calculate the percentage yield.		3

Determining the total attainment on this component

Choose the best **eight** highest scoring Can-Do Tasks which have been successfully completed.

Click in the points box at each of the **eight** Tasks which have been chosen.

		Number of Tasks	**Points**
Basic Tasks	1 point		
Intermediate Tasks	2 points		
Advanced Tasks	3 points		
Totals		**/8**	**/24**

This total transfers to the box on Page one