

Bryn Hafren Comprehensive – Marking and Feedback (Science)

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Task Assessment for Learning Grid: Books, Weathering and Rock cycle

in green target areas that you need to focus on and put
the Target box.

Information	Met	Target
To select the independent variable. estone sample	4a 5a	✓
Be able to select the dependent variable. The volume of carbon dioxide released	4a 5a	✓
(Q3) Be able to select the control variables making it a fair test. The same amount of limestone The same amount of acid to react with The same amount of limestone and the same volume of acid	4d 5d 6d	✓
(Q4) Describe how you will carry out the experiment in your exercise book. A plan that can be followed but some details missing parts that are A plan that can be followed with no important steps missing A detailed plan that can be followed easily with no parts missing	4a 5a 6a	✓
(Q5) Identify risks and hazards with the experiment and how to minimize them. Identify risks and hazards Identify risks and hazards Precaution: wear safety glasses at all times (wash with plenty of cold water if contact made) Measure glass is broken Glass could cut if broken Precaution: Take care when handling and don't touch broken glass.	4a 5a 6a	✓
(Q6) Record your results in a table. Table given Devised own table. Be able to measure accurately using units. Measure 25 cm ³ of acid using a measuring cylinder. Measure 0.2g on an electric balance Measurements to the nearest cm ³ from a gas syringe Take some repeat measurements Take 3 measurements for each experiment	4i 5a 6a 7a 8a 9a	✓

4d, 5d, 6d

4. In your exercise book: Write a plan to describe how you will carry out the experiment.
4a, 5a, 7a.

Dyffwrdd 17 March 2016

During book

100 cm³ of water
Blue flame
18°C before
22°C after

Before 21°C
After 24°C 3

Before 26°C
After 27°C 3

Temp difference
3.3°C

Plan

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Before 20.56°C = 1
After 20.58°C = 1

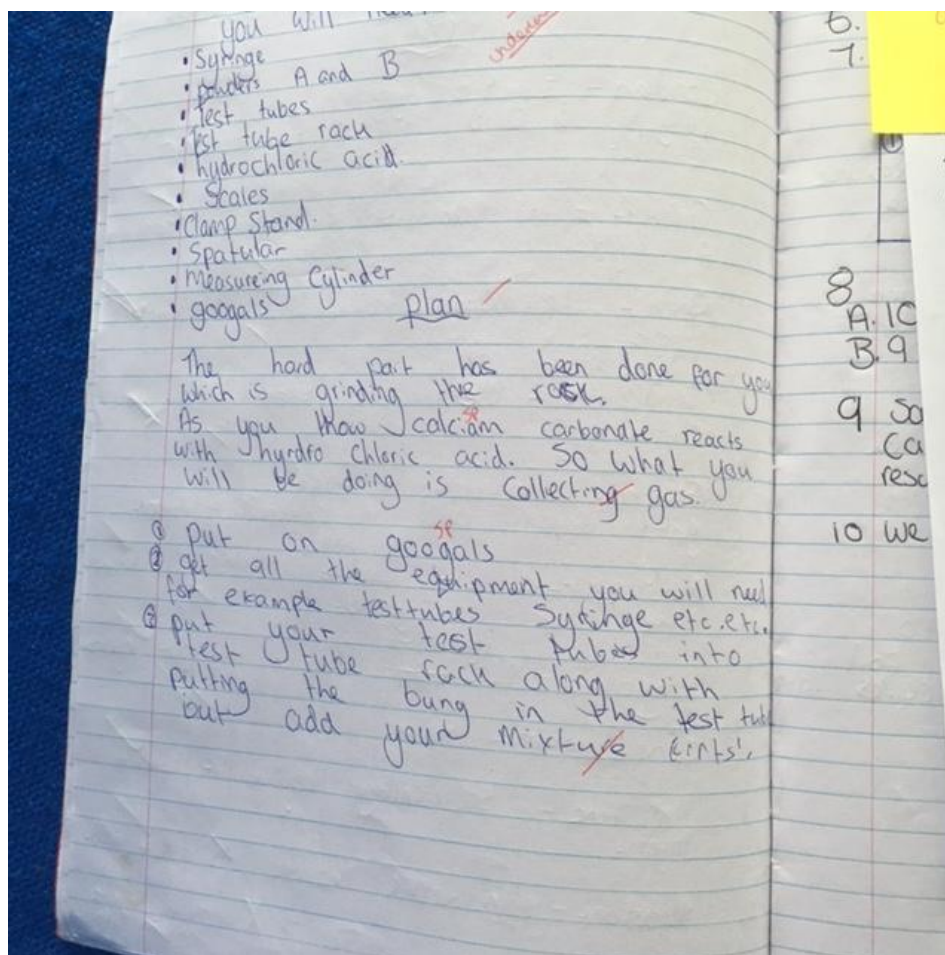
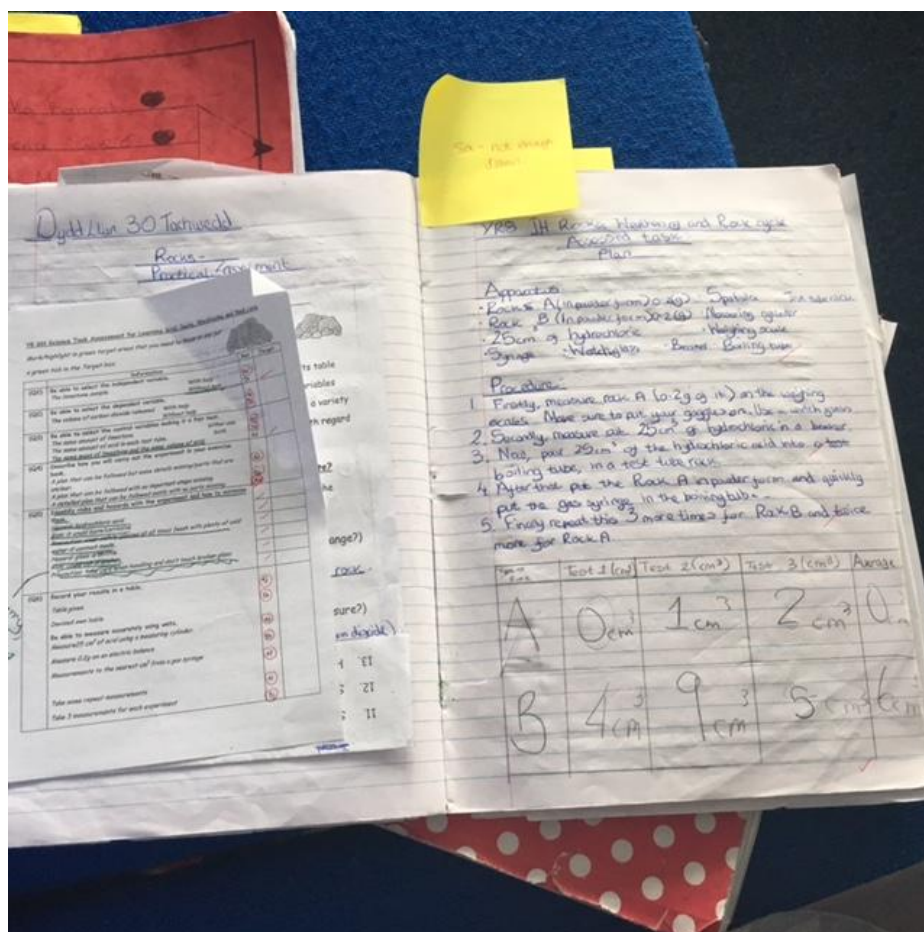
Before 20.60°C = 1
After 20.62°C = 1

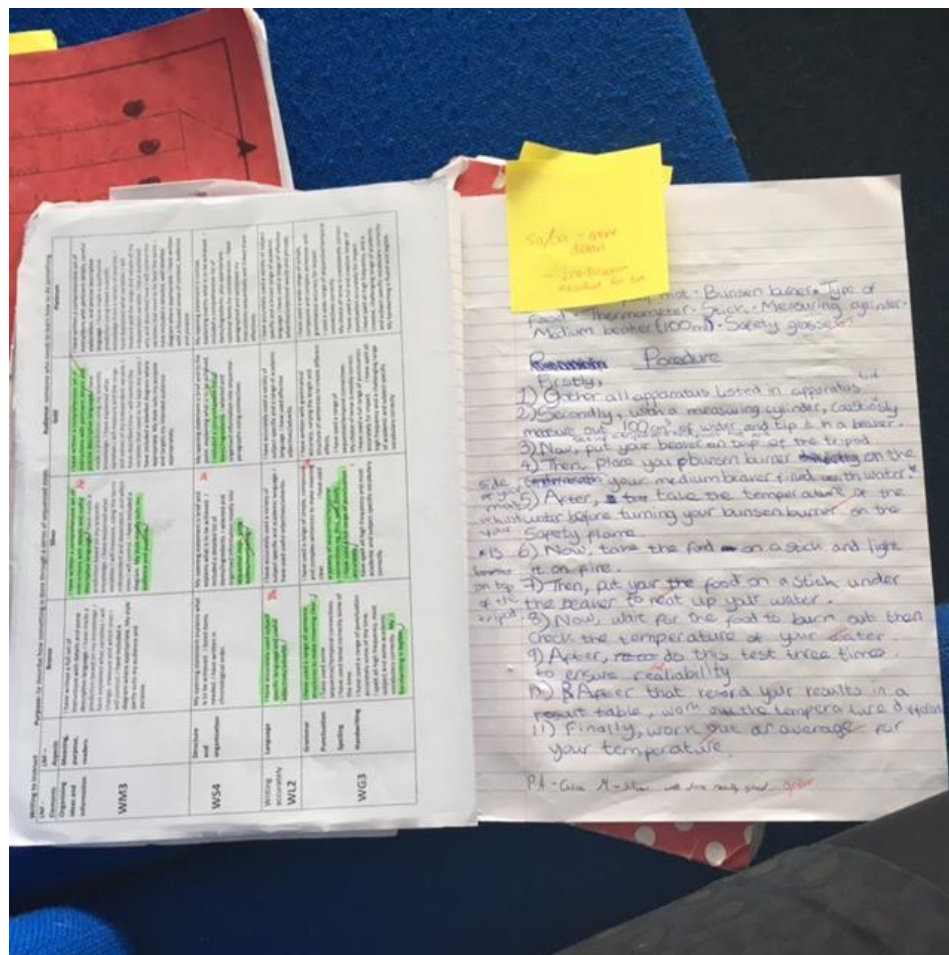
Before 20.64°C = 1
After 20.66°C = 1

Before 20.68°C = 1
After 20.70°C = 1

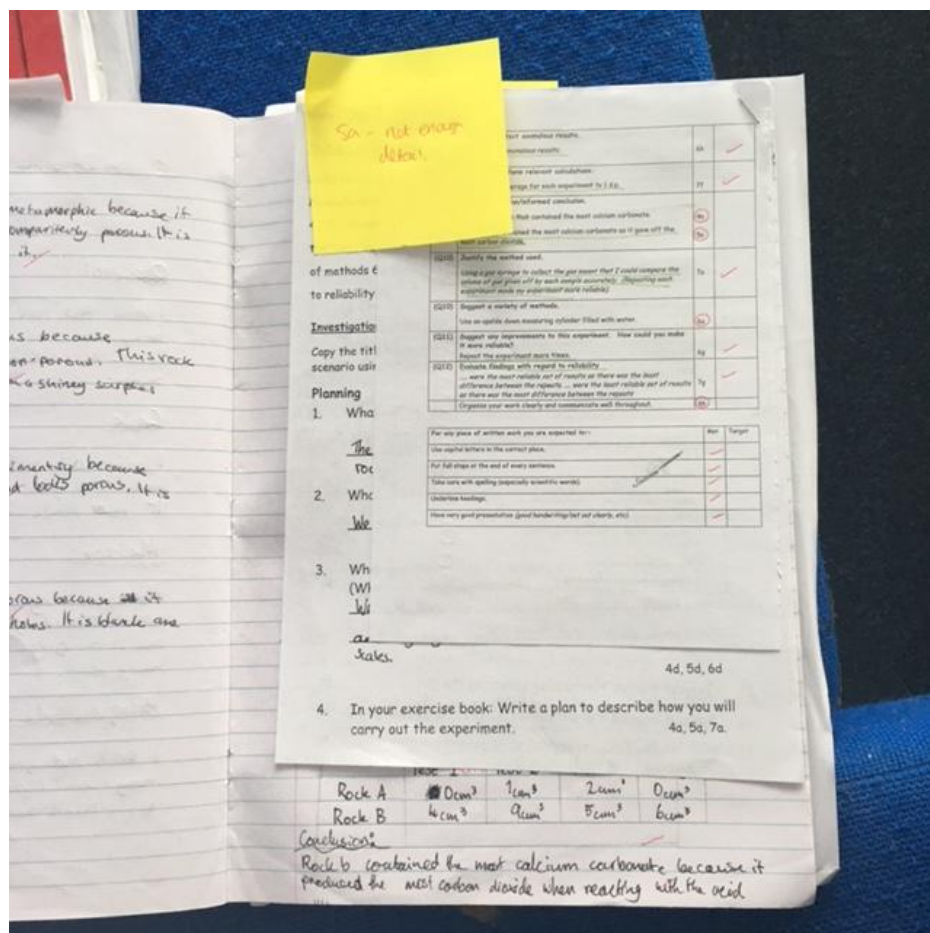
Before 20.72°C = 1
After 20.74°C = 1

Before 20.76°C = 1
After 20.7





Pupil 3



Dydd Llun 30 Tachwedd 2015

Rocks practical assessment

Apparatus:

- Apparatus:
- 6 test tubes
 - Rock a (0.2g)
 - Rock b (0.2g)
 - Hydrochloric acid (25cm³)
 - Test tube rack
 - Spatula
 - Syringe
 - Measuring cylinder
 - Weighing scales
 - Goggles
 - Watch glass

Procedure:

1. Firstly, gather all your equipment and measure out the hydrochloric acid, rock and rock b.
2. Next, put the test tube into the test tube rack and pour in the hydrochloric acid ~~acid~~ then add rock a and quickly place the syringe over the test tube.
3. After that, repeat this with rock a two more times and with rock b three times.
4. Then, record all your results into a table and write a conclusion.

	Test 1 (m)	Test 2	Test 3	Average
Rock A	0.001 m ³	1 cm ³	2 mm ³	0.001 m ³
Rock B	4 cm ³	9 cm ³	5 cm ³	6 cm ³

Conclusion:

Rock b contained the most calcium carbonate because it produced the most carbon dioxide when reacting with the acid.

Plain

Appendix 7

- Burner burner $\times 1$
- Large beaker $\times 1$
- Marshmallow \times number size $\times 3$
- A stick $\times 1$
- Matches
- Thermometer $\times 1$
- Tripod $\times 1$
- Heat proof mat $\times 1$
- 100 cm³ of water
- cm³ measuring cylinder $\times 1$
- Bubbles $\times 1$

Procedure:

- 1) Firstly, gather all the apparatus for the experiment, then light a match, turn on the gas and light the burner.
- 2) Next, measure out 100cm³ of water in a measuring cylinder and ~~pour~~ pour it into the large beaker and and set it on top of the tripod ~~apparatus~~.
- 3) After that, record the 'before' temperature of the water with a thermometer, then push the marshmallow onto the stick and set it alight above the Bunsen burner flame. ~~but if it set on fire, then quickly hold it under the large beaker until the fire goes out, then record the temperature of the water onto a results table.~~
- 4) Repeat this process (from step 2-3) ^{two more} ~~three~~ times with the remaining marshmallows and record your results.

[illegible]