

Chemical Changes Homework Week 5



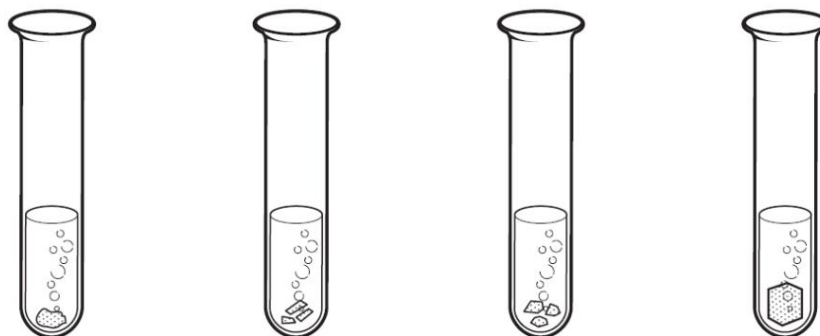
In your jotter write the DATE in the margin.

Now add a TITLE for your homework.

Your title should be the name of the Homework: Chemical Changes Homework Week 5

Question 1.

Matthew wanted to find out which type of marble would produce 20ml of gas the fastest when added to sulphuric acid



powdered marble

flaked marble

marble chips

lump of marble

The time taken to produce the quantity of gas is shown in the table below.

Marble	Time taken to produce 20 ml of gas (s)
powdered	18
flaked	
chips	25
lump	

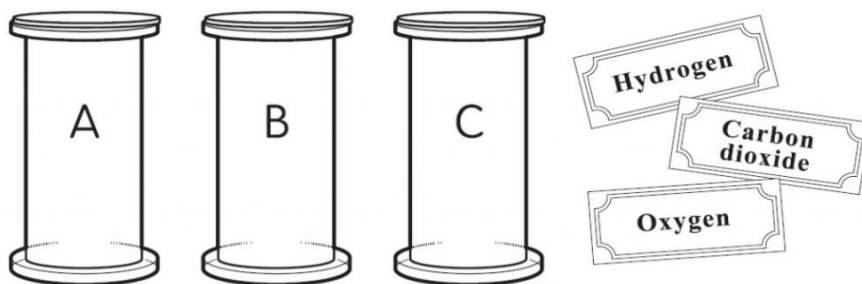
- Which type of marble would be the slowest to produce the 20ml of gas?
- Suggest the time that the flaked and lump chips would take to produce 20ml of gas
- If 4g of **powdered** marble was used instead of 2g, how long would the gas have taken to produce?

Question 2.

What happens in **all** chemical reactions?

Question 3.

An enquiring scientist found three gas jars with sealed lids. He remembered they contained three different gases, but the labels had fallen off.

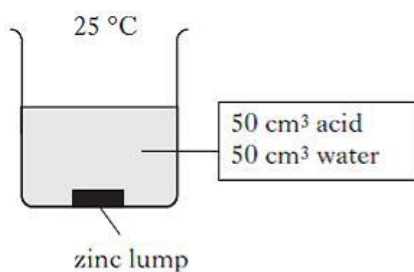


The gas in jar A relit a glowing splint.
The gas in jar B put out a burning taper with a pop.
The gas in jar C turned limewater milky.
Identify the three gases, A, B and C.

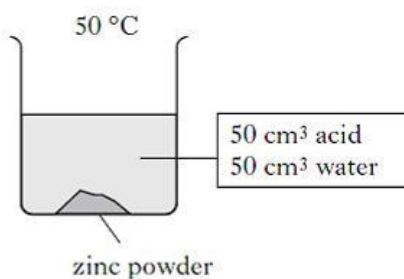
Question 4.

A student set up four experiments to investigate the reaction between zinc and dilute hydrochloric acid. Which two experiments show how changing the particle size affects the speed of the reaction?

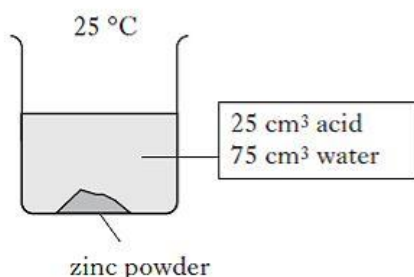
Experiment 1



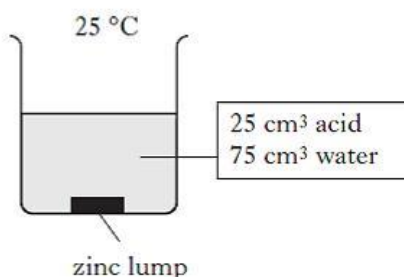
Experiment 2



Experiment 3



Experiment 4



- A 1 and 2
- B 2 and 3
- C 3 and 4
- D 4 and 1

Question 5.

Using the periodic table you have in your homework diary find the symbol for the element gold.
(if you don't have your diary find a periodic table on the internet)

- A Au
- B Ag
- C Gd
- D au

Question 6.

Approximately how many compounds are there?

- A only a few
- B around a hundred
- C thousands
- D millions

Question 7.

What element is represented by the symbol Hg. Use the periodic table you have in your homework diary. (if you don't have your diary find a periodic table on the internet)

- A mercury
- B silver
- C hydrogen
- D helium



A marking guide for this Homework is available (password required).