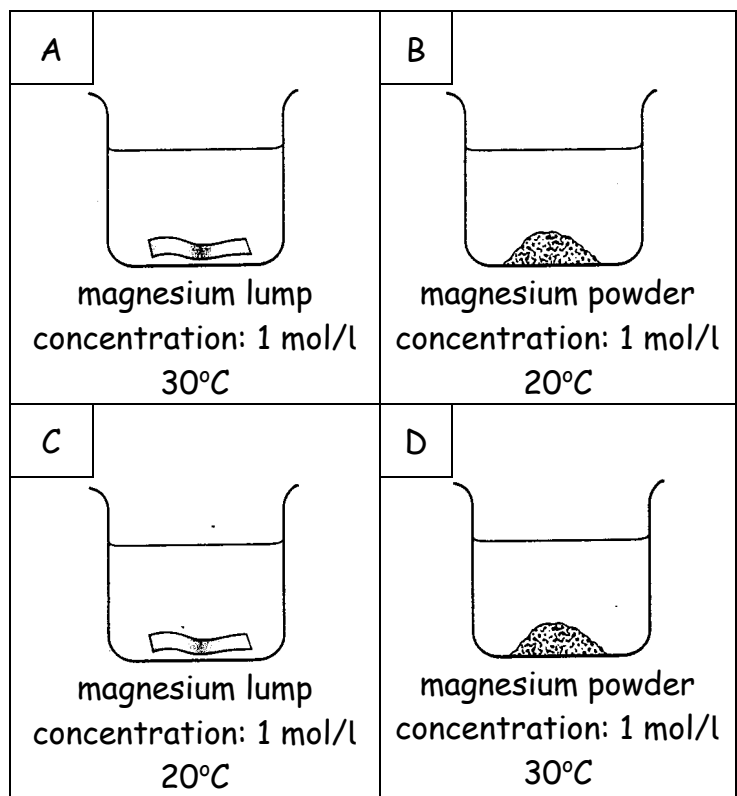
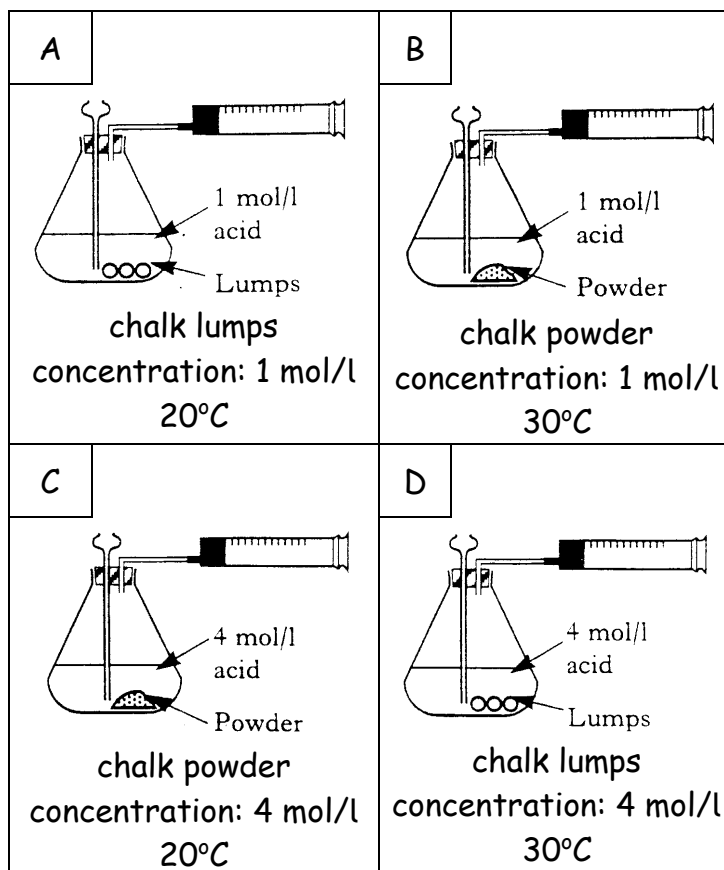


1. What is the definition of a catalyst? 2
.....
2. If 5g of catalyst was used in a reaction, what weight of catalyst would be left at the end of the reaction? 1
3. Enzymes are important chemicals in living organisms.
 - a) What is an enzyme?
..... 1
 - b) Do enzymes work better at 60°C.
..... 1
4. Pauline and Michael studied the reaction of magnesium with dilute acid. The same mass of magnesium was used in each experiment.



- a) Which if the above reactions will be the slowest? 1
- b) If the experiments in boxes A and D are compared, what factor is being investigated?
..... 1

5. Kenny and Alison were performing experiments with chalk and acid.



a) Which two boxes would be compared if the effect of temperature on the rate of reaction was being investigated?..... 1

b) Which reaction was the fastest?..... 1

6. Write word equations for the following chemical reactions.

a) *When a piece of magnesium ribbon is added to some hydrochloric acid, bubbles of hydrogen gas are seen. Magnesium chloride is also produced.*

—————→

2

b) *When butane burns it combines with oxygen to produce carbon dioxide and water.*

—————→

2

c) *Hydrogen is produced when steam reacts with hot zinc metal. Zinc oxide is also produced in the reaction.*

—————→

2

total

15