Rocks – Checkpoint Primary Chemistry

1.

Planet Earth has rocks and soil.

(a) The three rock types are metamorphic, igneous and sedimentary.

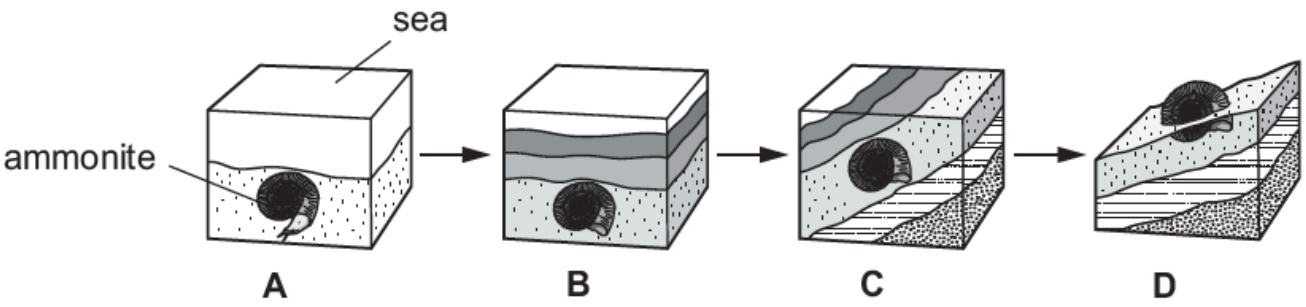
Draw a line to match each **rock type** to its correct **description**.

rock type	description
metamorphic	a very hard rock formed when lava from volcanoes cools
igneous	a very hard rock formed from other rocks using heat and pressure
sedimentary	formed when tiny pieces of rock are pressed together

[1]

(b) Fossils form in sedimentary rocks.

The pictures show how a fossil of an ammonite is formed and found.



Write descriptions for pictures **B** and **D**.

A Ammonite dies and falls to the bottom of the sea.

B .....

C Over millions of years the sedimentary rock moves.

D .....

[2]

(c) Mike compares two soils.

soil **A**

soil **B**

Soils are made from a mixture of:

- clay
- sand
- organic matter

Complete the sentences.

Soil **A** is mostly made from ..... because

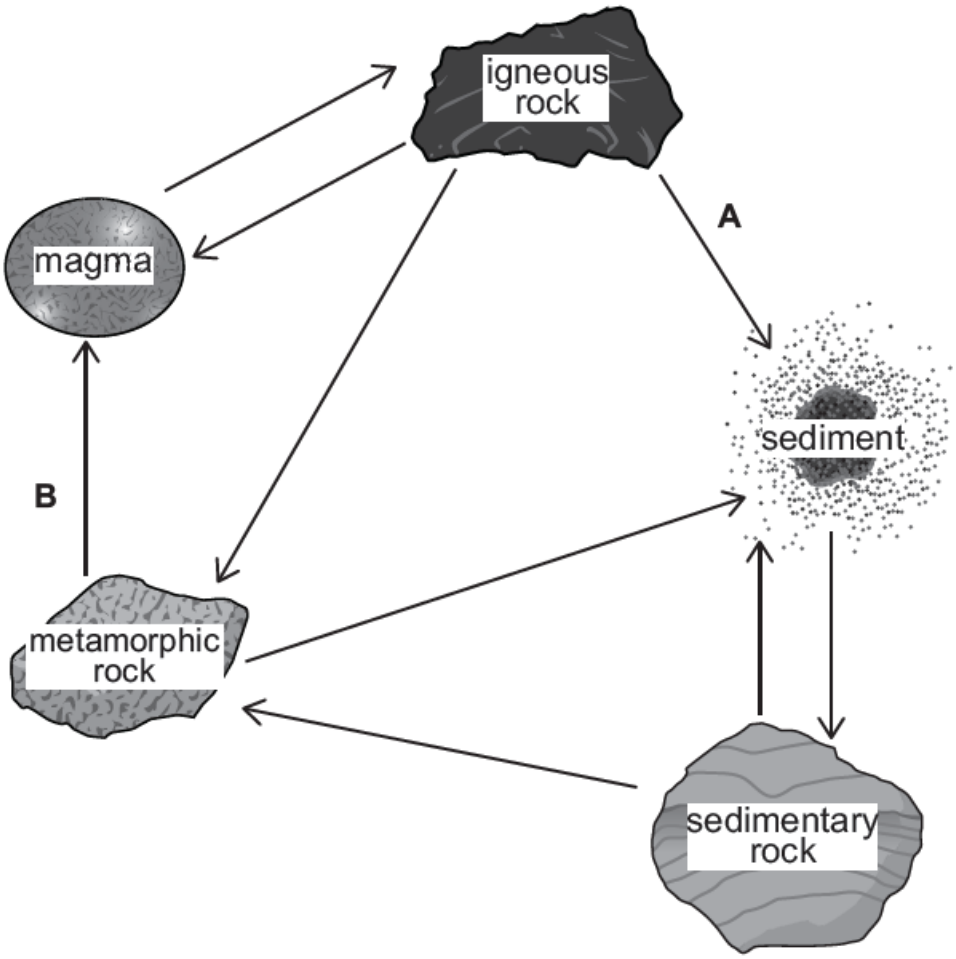
.....

Soil **B** is mostly made from ..... because

.....

[2]

2. Lily draws a diagram of the rock cycle.



(a) Circle process **A**.

burial **erosion** **heating** **melting**

[1]

(b) Circle process **B**.

cooling **erosion** **melting** **solidification**

[1]

(c) Describe the processes of sedimentation and metamorphism.

sedimentation .....

.....

metamorphism .....

.....

[2]

3. Hassan collects information about different igneous rocks.

igneous rock	crystal size in mm	colour
A	10.2	grey
B	8.4	black
C	15.2	grey
D	0.5	black
E	no crystals	grey
F	no crystals	black

(a) Which igneous rocks have crystal sizes larger than 8 mm **and** are grey in colour?

..... [1]

(b) Igneous rocks are formed from molten rock.

Molten rock that cools the slowest has the biggest crystals.

Complete the sentences.

The igneous rock that cooled the slowest is .....

The igneous rock **E** has **no** crystals because .....

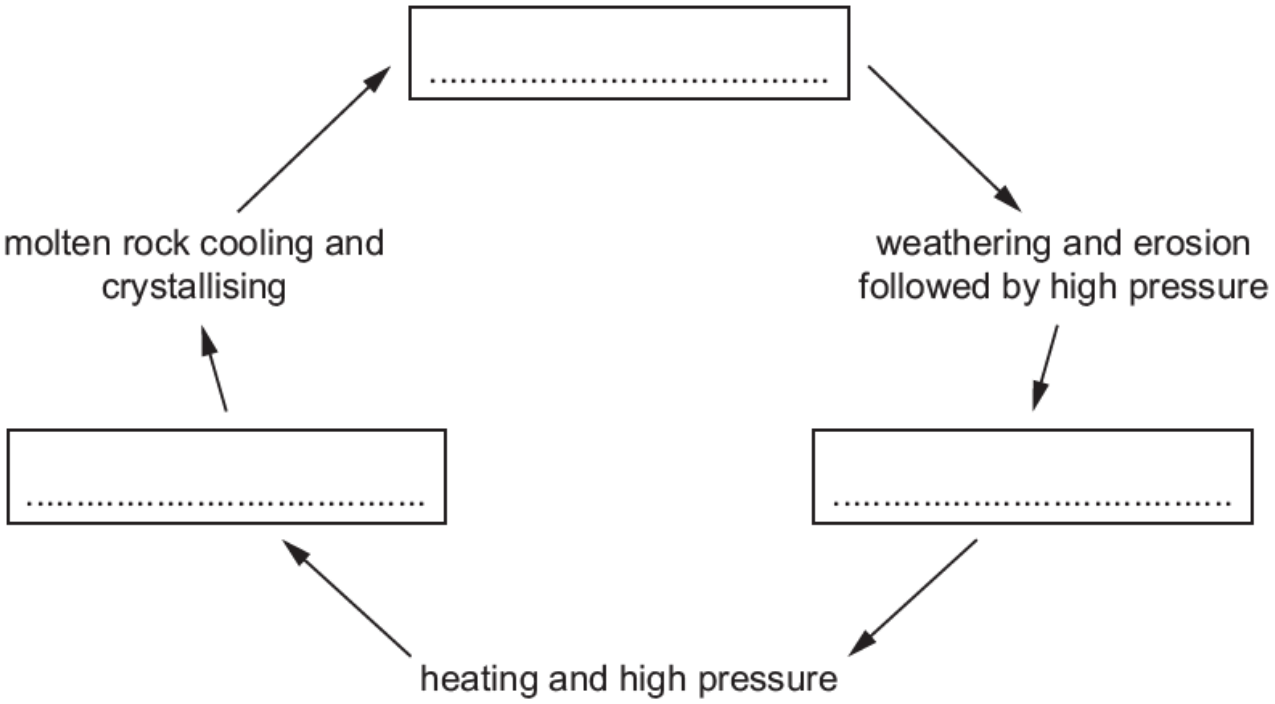
.....

..... .

[2]

4.

(a) Complete the rock cycle diagram by writing the names of the **three** types of rock in the correct boxes.



[2]

(b) Fossils of dead animals are sometimes found in rocks.

Describe how fossils are formed.

.....

.....

..... [2]