

ROCK AND MINERAL FORMATION

Read the theory carefully:

Rocks and minerals make up the **Earth's crust**. Rocks are clusters of **minerals** and other **inorganic materials**. Minerals are structured **crystals** that have specific chemical components.

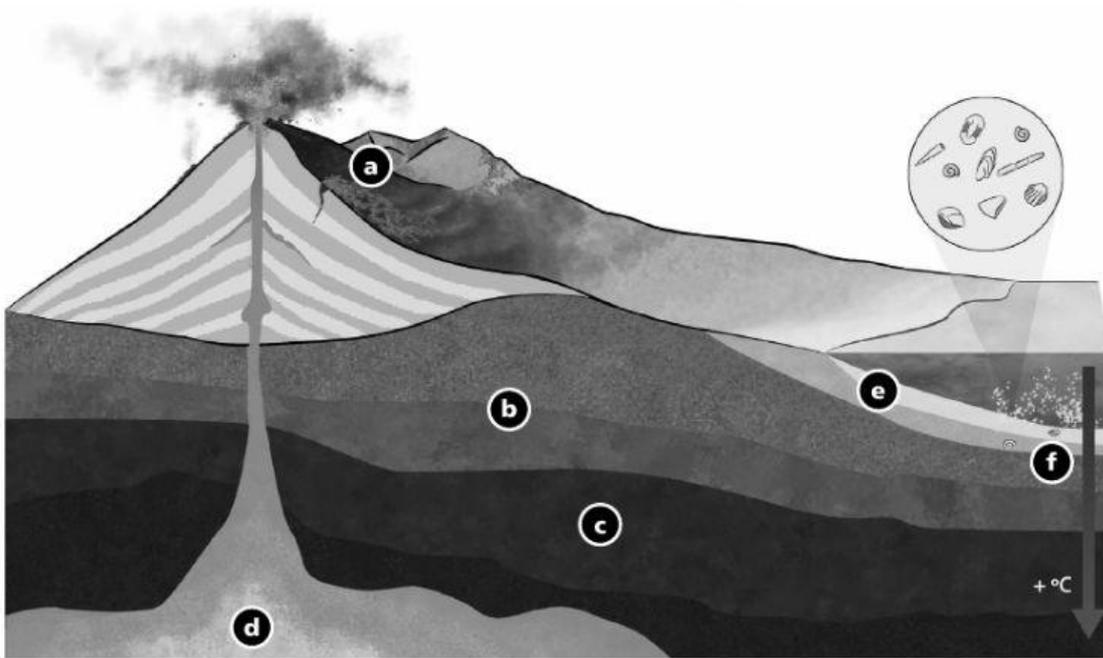
There are three types of rocks: **igneous**, **sedimentary** and **metamorphic**.

| <u>IGNEOUS</u> | <u>SEDIMENTARY</u> | <u>METAMORPHIC</u> |
|---|--|---|
| <ul style="list-style-type: none">• These rocks form when lava from volcanoes cools and hardens.• If the lava cools quickly, small crystals form and the rock has dots and colour.• If the lava cools slowly, then large crystals form and the rock looks the same color all over.• Granite and basalt are two examples. | <ul style="list-style-type: none">• These rocks consist on layers of other rock fragments, or animal or plant fossils.• These compact over millions of years to form rocks.• Clay and limestone are two examples of sedimentary rocks. | <ul style="list-style-type: none">• Extreme heat and pressure from the surrounding earth “bakes” this rock and produces metamorphic rock.• Examples: marble and slate. |

PRACTICE

1. Complete the sentences. Then, label the definitions using the correct letters from the picture:

| | | | | | |
|------|---------|---------|--------|-------|-----------|
| lava | igneous | outside | living | layer | volcanoes |
|------|---------|---------|--------|-------|-----------|



- Fossils are the remains of _____ things that left and imprint in rocks over millions of years. F
- Magma is the hot liquid contained inside _____.
- Lava is what we call magma when it is _____ a volcano. _____
- Igneous rock forms when molten _____ cools and hardens. _____
- Sedimentary rocks consist of _____ of other rock fragments, or animal and plant fossils. _____
- Metamorphic rocks form when _____ and sedimentary rocks are pushed down by other layers of rock from above. _____