 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Model the processes that are responsible for rock formation and link these to the rock features.



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| --- | --- | --- | --- | --- |
| Know  1  2 | |  | Apply | |
| Ideas | |  |  |  |
| K1 | Sedimentary, igneous and metamorphic rocks can be interconverted over millions of years through weathering and erosion, heat and pressure, and melting and cooling. |  | A1 | Explain why a rock has a particular property based on how it was formed. |
| A2 | Identify the causes of weathering and erosion and describe how they occur. |
|  | |  | A3 | Construct a labelled diagram to identify the processes of the rock cycle. |
| Facts | |
| K2 | The three rock layers inside Earth are the crust, the mantle, and the core. |  |  |  |
|  | |  |  |  |
| Key words | |  |  |
| K3 | **Rock cycle:** Sequence of processes where rocks change from one type to another. |  |  |  |
|  |  |
| K4 | **Weathering:** The wearing down of rock by physical, chemical or biological processes. |  |  |  |
|  |  |
| K5 | **Erosion:** Weathering of rock and its movement by water, ice or wind (transportation). |  |  |  |
| K6 | **Minerals:** Chemicals that rocks are made from. |  |  |  |
| K7 | **Sedimentary** **rocks:** Formed from layers of sediment, and which can contain fossils. Examples are limestone, chalk and sandstone. |  |  |  |
|  |  |
| K8 | **Igneous rocks:** Formed from cooled magma, with minerals arranged in crystals. Examples are granite, basalt and obsidian. |  |  |  |
|  | |
| K9 | **Metamorphic rocks:** Formed from existing rocks exposed to heat and pressure over a long time. Examples are marble, slate and schist. |  |  |  |
| K10 | **Strata:** Layers of sedimentary rock. |  |  |  |
| 3 | Extend |  |  |  |
| E1 | Identify circumstances that indicate fast processes of change on Earth and those that indicate slower processes. |  |  |  |
| E2 | Predict planetary conditions from descriptions of rocks on other planets. |  |  |  |
| E3 | Describe similarities and differences between the rock cycle and everyday physical and chemical processes. |  |  |  |
| E4 |  |  |  |  |
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| E5 |  |  |  |  |
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