

Lesson	Know	Apply	Extend
7.1.1 The structure of the Earth	I can name the layers of the Earth. <input type="checkbox"/>	I can describe properties of the different layers of the Earth's structure. <input type="checkbox"/>	I can compare the different layers of the Earth in terms of their properties. <input type="checkbox"/>
	I can state what a mineral is. <input type="checkbox"/>	I can explain that most rocks are mixtures of minerals. <input type="checkbox"/>	I can interpret data about the elements that make up the Earth's crust. <input type="checkbox"/>
	I can design a simple model of the Earth using information about its structure. <input type="checkbox"/>	I can describe advantages and disadvantages of a given model of the Earth's structure. <input type="checkbox"/>	I can explain why models are good or poor representations of the Earth's structure in terms of the materials used. <input type="checkbox"/>
7.1.2 Sedimentary rocks	I can state a property of sedimentary rocks. <input type="checkbox"/>	I can explain why a sedimentary rock has a particular property based on how it was formed. <input type="checkbox"/>	I can predict planetary conditions from descriptions of rocks on other planets. <input type="checkbox"/>
	I can describe how sedimentary rocks are made. <input type="checkbox"/>	I can identify the causes of weathering and erosion and describe how they occur. <input type="checkbox"/>	I can explain detail each stage in the formation of a sedimentary rock. <input type="checkbox"/>
	I can state the processes shown by different models of the stages in sedimentary rock formation. <input type="checkbox"/>	I can explain how how a given model represents a particular process in the formation of sedimentary rock. <input type="checkbox"/>	I can evaluate strengths and weaknesses for models of sedimentary rock formation, giving reasons. <input type="checkbox"/>
7.1.3 Igneous and metamorphic rocks	I can state one difference between igneous and metamorphic rocks. <input type="checkbox"/>	I can explain in detail how igneous and metamorphic rocks form. <input type="checkbox"/>	I can discuss examples of rocks that illustrate the different methods of formation of igneous and metamorphic rocks. <input type="checkbox"/>
	I can describe how igneous and metamorphic rocks are formed. <input type="checkbox"/>	I can explain why igneous and metamorphic rocks have particular properties based on how they were formed. <input type="checkbox"/>	I can identify circumstances that indicate fast processes of change on Earth and those that indicate slower processes. <input type="checkbox"/>

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	I can describe what you see when a substance representing lava is cooled. <input type="checkbox"/>	I can predict observations when a substance representing lava is cooled at different temperatures. <input type="checkbox"/>	I can predict observations when a substance representing lava is cooled, using knowledge about igneous rock formation to explain the answer. <input type="checkbox"/>
7.1.4 The rock cycle	I can give simple facts about how a rock can be changed from one type to another. <input type="checkbox"/>	I can use the rock cycle to explain how the material in rocks is recycled. <input type="checkbox"/>	I can give a detailed description and explanation of the journey of material through the rock cycle. <input type="checkbox"/>
	I can state what happens to wax in a model rock cycle. <input type="checkbox"/>	I can describe how changes in the wax used to represent a rock represent the real rock cycle. <input type="checkbox"/>	I can suggest similarities and differences between the rock cycle and everyday physical and chemical properties. <input type="checkbox"/>
7.1.5 Ceramics	I can list the properties of ceramics. <input type="checkbox"/>	I can use data on properties to decide which materials might be ceramics. <input type="checkbox"/>	I can justify decisions made from property data about which materials might be ceramics. <input type="checkbox"/>
	I can list some uses of ceramics. <input type="checkbox"/>	I can explain why properties of ceramics make them suitable for their uses. <input type="checkbox"/>	I can suggest how ceramic materials might be similar to some types of rock. <input type="checkbox"/>
	I can suggest a simple method for comparing the strength of ceramic materials given a choice of apparatus. <input type="checkbox"/>	I can plan a method for comparing the strength of ceramic materials, including devising a fair test question, identifying control variables, and identifying risks, hazards and control measures. <input type="checkbox"/>	I can plan a method for comparing the strength of ceramic materials, justifying choices of experimental techniques, apparatus and the measures to control risk. <input type="checkbox"/>