Year 8 Rocks, Earth's Atmosphere and Combustion 13 Lessons

Stage	Description
Emerging	State gases which are In the current Earth's atmosphere. Label the layers of the Earth. State the three different types of rocks. Give one example of each type of rock. State a range of ways in which Carbon Dioxide is produced by human activities. Define the term combustion. State the definition of oxidation. Draw the fire triangles.
Developing	Describe the composition of the Earth. Describe the composition of the current Earth's atmosphere. Describe how different types of rocks are formed. Give a range of different examples of types of rocks. Describe the Earth as a source of limited resources. Describe the impact of humans on the climate. Describe and give examples of combustion. Describe the fire triangle.
Secure	Compare the composition of the Earth's early atmosphere to the current atmosphere. Describe the structure of the Earth. Explain the rock cycle. Describe the carbon cycle and explain its importance. Explain the importance of recycling. Use data to explain human's impact on the climate. Give example of combustion and thermal decomposition. Compare different fuels. Give examples of a range of oxidation reaction.
Excellence	Explain how the composition of the Earth's atmosphere has changed over time. Compare the different types of rock and link to the rock cycle. Explain how scientists research the structure of the Earth. Explain the importance of the carbon cycle. Create an argument which raises awareness of how humans have an impact on the climate. Link the fire triangle and oxidation reactions to every day examples. Explain how the fire triangle links to combustion. Create an experiment which investigates different fuels.