

Lesson	Know	Apply	Extend
7.3.1 Global warming	I can state that global warming is the gradual increase in surface temperature of the Earth. <input type="checkbox"/>	I can design a model to explain the greenhouse effect, and use an annotated diagram to describe the model in detail. <input type="checkbox"/>	I can compare the relative effects of human-produced and natural global warming. <input type="checkbox"/>
	I can state that the greenhouse effect is when energy from the Sun is transferred to the thermal energy store of gases in the Earth's atmosphere. <input type="checkbox"/>	I can interpret graphs that show trends over time. <input type="checkbox"/>	I can design and evaluate a model to explain the greenhouse effect, and use an annotated diagram to describe the model in detail. <input type="checkbox"/>
	I can state the names and percentages of the gases that make up the Earth's atmosphere and name two greenhouse gases. <input type="checkbox"/>	I can describe and explain what is meant by global warming. <input type="checkbox"/>	I can interpret graphs that show trends over time, and explain their limitations. <input type="checkbox"/>
	I can outline a design for a model to explain the greenhouse effect. <input type="checkbox"/>		
7.3.2 The carbon cycle	I can state the changes in levels of carbon dioxide over time. <input type="checkbox"/>	I can explain why the concentration of carbon dioxide in the atmosphere did not change for many years. <input type="checkbox"/>	I can explain changes in the levels of carbon dioxide using stages of the carbon cycle. <input type="checkbox"/>
	I can name one carbon sink. <input type="checkbox"/>	I can use the carbon cycle to identify carbon sinks. <input type="checkbox"/>	I can use equations to explain processes that exchange carbon dioxide into and out of the atmosphere. <input type="checkbox"/>
	I can list the processes that recycle carbon naturally. <input type="checkbox"/>	I can use the carbon cycle to show how carbon is recycled. <input type="checkbox"/>	
7.3.3 Climate change	I can state that scientists have evidence that global warming caused by human activity is causing changes in climate. <input type="checkbox"/>	I can describe how human activities affect the carbon cycle. <input type="checkbox"/>	I can compare the relative effects of human-produced and natural global warming. <input type="checkbox"/>

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	I can give examples of impacts of climate change. <input type="checkbox"/>	I can describe how global warming can impact on climate and local weather patterns. <input type="checkbox"/>	I can evaluate the implications of a proposal to reduce carbon emissions. <input type="checkbox"/>
		I can give arguments for and against the claim that human activity is causing global warming and climate change. <input type="checkbox"/>	I can evaluate claims that human activity is causing global warming or climate change. <input type="checkbox"/>