

Appendix 5: Lesson Plan for Climate Change Experiment

LESSON PLAN – GREENHOUSE GAS EXPERIMENT

Subject:		Grade:	Duration:
Focus Outcome: Specific Learner Outcome:		Focus Question: How does the <i>Greenhouse Gas</i> affect our climate?	
Instructional Strategies: <input type="checkbox"/> direct instruction <input type="checkbox"/> cooperative learning <input type="checkbox"/> technology integration <input type="checkbox"/> anticipation guide <input type="checkbox"/> inquiry process		Student Groupings: <input type="checkbox"/> Whole Class <input type="checkbox"/> Pairs <input type="checkbox"/> Small Groups <input type="checkbox"/> Individual	
Introduction: Review the concepts of greenhouse gasses and global warming using diagrams if possible. Explain that this is a simple demonstration of global warming.		Materials: 2 plastic containers with lids (or plastic wrap) 2 thermometers 1 desk lamp with a halogen light bulb *If you wish you may add a small ice cube to each container to show the difference in melting.	
Concept/Skill Development: Students will gain a deeper understanding of an abstract concept such as global warming through the use of concrete visuals.		Activities/Tasks: Start by poking 1 hole in one lid (or plastic wrap) and about 10 holes in the other lid or (plastic wrap). The container with 1 hole represents too much greenhouse gasses trapped in the atmosphere; the other with many holes represents a healthy atmosphere. Place the containers equally close to the desk lamp, which represents the sun. Once both containers are sitting under the light, the one with many holes will let the heat out quicker resulting in a minimal temperature change. The other container will trap the heat causing the temperature to rise. Check the	

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		temperature at 10 or 15 minute intervals for 45 minutes.
Summary:		
Assessment Strategies:		Assessment Records:
<input type="checkbox"/> written assignment <input type="checkbox"/> observation <input type="checkbox"/> portfolio		<input type="checkbox"/> quiz, test, examination <input type="checkbox"/> self-assessment <input type="checkbox"/> performance task
Notes/ Reflection:		