

## Congruence with the NGSS

### Unit Title: **Earth's Cryosphere: Baby It's Cold Outside**

#### Science and Engineering Practices (SEPs)

SEPS	Activities
Developing and Using Models	<ul style="list-style-type: none"> <li>• Climate and the Cryosphere: Lab 3B, Lab 3C</li> <li>• Climate and the Cryosphere: Lab 6A, Lab 6B</li> </ul>
Planning and Carrying Out Investigations	<ul style="list-style-type: none"> <li>• Climate and the Cryosphere: Lab 6B</li> </ul>
Analyzing and Interpreting Data	<ul style="list-style-type: none"> <li>• Climate and the Cryosphere: Lab 1B</li> <li>• Climate and the Cryosphere: Lab 2A, Lab 2B, Lab 2C</li> <li>• Climate and the Cryosphere: Lab 3C</li> <li>• Climate and the Cryosphere: Lab 4A, Lab 4B, Lab 4C</li> <li>• Climate and the Cryosphere: Lab 5A, Lab 5B</li> <li>• Climate and the Cryosphere: Lab 6</li> </ul>
Using Mathematics and Computational Thinking	<ul style="list-style-type: none"> <li>• Climate and the Cryosphere: Lab 1B</li> <li>• Climate and the Cryosphere: Lab 5A, Lab 5B</li> </ul>
Engaging in Argument from Evidence	<ul style="list-style-type: none"> <li>• Climate and the Cryosphere: Lab 1B, Lab 1C</li> <li>• Climate and the Cryosphere: Lab 2C</li> <li>• Climate and the Cryosphere: Lab 3A</li> <li>• Climate and the Cryosphere: Lab 4C</li> <li>• Climate and the Cryosphere: Lab 5C</li> <li>• Climate and the Cryosphere: Lab 6B</li> </ul>
Obtaining, Evaluating and Communicating Information	<ul style="list-style-type: none"> <li>• Climate and the Cryosphere: Lab 6B</li> </ul>

#### Disciplinary Core Ideas (DCIs)

DCIs	Activities
ESS1B: Earth and the Solar System	<ul style="list-style-type: none"> <li>• Climate and the Cryosphere: Lab 4A</li> </ul>
ESS2A: Earth Materials and Systems	<ul style="list-style-type: none"> <li>• Climate and the Cryosphere: Lab 2C</li> <li>• Climate and the Cryosphere: Lab 4A, Lab 4B</li> <li>• Climate and the Cryosphere: Lab 5B, Lab 5C</li> </ul>

ESS2C: The Role of Water in Earth's Surface Processes	<ul style="list-style-type: none"> <li>• Climate and the Cryosphere: Lab 2A, Lab 2B</li> <li>• Climate and the Cryosphere: Lab 3A, Lab 3B, Lab 3C</li> <li>• Climate and the Cryosphere: Lab 4C</li> </ul>
ESS2D: Weather and Climate	<ul style="list-style-type: none"> <li>• Climate and the Cryosphere: Lab 1B</li> <li>• Climate and the Cryosphere: Lab 2A, Lab 2C</li> <li>• Climate and the Cryosphere: Lab 3A</li> <li>• Climate and the Cryosphere: Lab 4A, Lab 4B</li> <li>• Climate and the Cryosphere: Lab 5A, Lab 5B, Lab 5C</li> <li>• Climate and the Cryosphere: Lab 6</li> </ul>
ESS3A: Natural Resources	<ul style="list-style-type: none"> <li>• Climate and the Cryosphere: Lab 1C</li> </ul>
ESS3B: Natural Hazards	<ul style="list-style-type: none"> <li>• Climate and the Cryosphere: Lab 1C</li> </ul>
ESS3C: Human Impacts on Earth's Systems	<ul style="list-style-type: none"> <li>• Climate and the Cryosphere: Lab 1C</li> <li>• Climate and the Cryosphere: Lab 6B</li> </ul>
ESS3D: Global Climate Change	<ul style="list-style-type: none"> <li>• Climate and the Cryosphere: Lab 6A, Lab 6B</li> </ul>

### Cross Cutting Concepts (CCCs)

CCCs	Activities
Patterns	<ul style="list-style-type: none"> <li>• Climate and the Cryosphere: Lab 2C</li> <li>• Climate and the Cryosphere: Lab 4A</li> <li>• Climate and the Cryosphere: Lab 5C</li> </ul>
Cause and Effect	<ul style="list-style-type: none"> <li>• Climate and the Cryosphere: Lab 1B, Lab 1C</li> <li>• Climate and the Cryosphere: Lab 2A, Lab 2B, Lab 2C</li> <li>• Climate and the Cryosphere: Lab 3A, Lab 3B, Lab 3C</li> <li>• Climate and the Cryosphere: Lab 4A, Lab 4B, Lab 4C</li> <li>• Climate and the Cryosphere: Lab 5C</li> <li>• Climate and the Cryosphere: Lab 6B</li> </ul>
Systems and System Models	<ul style="list-style-type: none"> <li>• Climate and the Cryosphere: Lab 2C</li> <li>• Climate and the Cryosphere: Lab 3A, Lab 3B, Lab 3C</li> <li>• Climate and the Cryosphere: Lab 4A</li> <li>• Climate and the Cryosphere: Lab 5C</li> <li>• Climate and the Cryosphere: Lab 6A, Lab 6B</li> </ul>
Energy and Matter	<ul style="list-style-type: none"> <li>• Climate and the Cryosphere: Lab 2A, Lab 2B</li> <li>• Climate and the Cryosphere: Lab 4C</li> <li>• Climate and the Cryosphere: Lab 5C</li> </ul>

Stability and Change	<ul style="list-style-type: none"><li>• Climate and the Cryosphere: Lab 1C</li><li>• Climate and the Cryosphere: Lab 2B, Lab 2C</li><li>• Climate and the Cryosphere: Lab 3A</li><li>• Climate and the Cryosphere: Lab 4A, Lab 4B, Lab 4C</li><li>• Climate and the Cryosphere: Lab 5A, Lab 5B, Lab 5C</li><li>• Climate and the Cryosphere: Lab 6A, Lab 6B</li></ul>
----------------------	---