

Cycle Model Rubric

Name

Date

Your cycle model must include:

____ All processes that are part of your team's cycle, clearly labeled with the scientific names, correctly placed, and accompanied by lines with arrows showing flow direction. Lines can have arrows on both ends, representing flow moving both ways between reservoirs.

____ All carbon reservoirs on Earth, clearly labeled with their scientific name, and correctly placed.

____ A title clearly stating which cycle the model represents.

Name:			Cycle:	
Criteria	Exemplary Scientist	Developing Scientist	Beginning Scientist	Feedback
<p>Construct a complete visual model that clearly and effectively communicates to your audience the complex processes, exchanges, flows, and reservoirs relevant to the global carbon cycle with integrated sub-cycles and processes, including the hydrologic cycle, the rock cycle, and photosynthesis and respiration.</p> <p>MS-ESS2-1: Develop a model to describe the cycling of Earth's materials and the flow of energy that drives this process.</p> <p>Developing and Using Models Develop and/or use a model to predict and/or describe phenomena.</p>	<p>Your model is exceptionally thorough and complete, with all processes labeled properly, with arrows in the correct direction(s), with all reservoirs included, and with all sub-cycles clearly integrated. There is extra effort evident in the organization and explanations that help make a complex process easier to understand. It is visually appealing and masterfully effective as a tool to help others easily understand the complex information.</p>	<p>Your model is almost complete, with most processes and reservoirs labeled correctly and clearly. Most arrows are included and correctly placed. The sub-cycles are included and integrated to minimal degree. The organization is satisfactory for helping others understand the cycle, but could use more clarity to make it optimally effective.</p>	<p>Your model is incomplete with some processes or reservoirs missing, inadequately labeled, or mislabeled. Not all arrows are included or some point in the wrong direction. The sub-cycles are included, but not well integrated. The organization of the model is confusing or unclear, and needs improvement in order for others to understand the cycle.</p>	

Name:		Cycle:		
<p>Describe the flow of energy and matter in the global carbon cycle to the audience using appropriate eye contact, adequate volume, and clear pronunciation, while effectively utilizing the model to guide and enhance your presentation.</p> <p>CCSS.ELA-LITERACY.SL.7.4: Present claims and findings, emphasizing salient points in a focused, coherent manner with pertinent descriptions, facts, details, and examples; use appropriate eye contact, adequate volume, and clear pronunciation.</p> <p>CCSS.ELA-LITERACY.SL.7.5: Include multimedia components and visual displays in presentations to clarify claims and findings and emphasize salient points.</p>	<p>Your explanation is engaging, confident, organized, accurate, and clear. You use effective eye contact, volume, and gestures throughout. You consistently use the model to help the audience understand the information.</p>	<p>Your explanation is mostly accurate but has some errors or missing information. The sequence of your explanation is mostly effective but could have benefitted from more thoughtful organization. You sometimes make eye contact, use helpful gestures, and appropriate volume. You occasionally use the model to help the audience understand the information.</p>	<p>Your explanation has several errors or missing pieces, or is disorganized so that you do not effectively communicate your ideas. You rarely use eye contact or gestures. Your volume was too loud or too soft for the audience. You rarely use the model while speaking.</p>	