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| **Advanced****Score 4.0** | In addition to the Proficient (3.0) performance, makes ***indepth*** inferences and extended applications of what was learned, including connections to other experiences. | AtmosphereSun’s EnergyFactors/Movements in Atmosphere  | *Student will be able to…** Defend your position on what nations should do to solve air pollution that crosses borders

-------------------------------------------------------------------------------* Interpret the relationship between the energy in the atmosphere with a hot car on a summer day

-------------------------------------------------------------------------------* Predict the origin of weather fronts
* Demonstrate why people with arthritis ache more before a thunderstorm
 |
|  | **Proficient +****Score 3.5** | In addition to the complex ideas and processes (Proficient 3.0) performance, ***partial success*** at in-depth inferences and extended applications of what was learned, including connections to other experiences. |
| **Proficient****Score 3.0** | ***No major*** errors or omissions regarding any of the information and simple (Basic, 2.0) or complex processes (Proficient, 3.0) that was explicitly taught. | AtmosphereSun’s EnergyFactors/Movements in Atmosphere  | *Student will be able to…** Describe the composition of the atmosphere
* Explain how and why the atmosphere’s air pressure changes at different elevations

-------------------------------------------------------------------------------* Compare and contrast radiation, thermal conduction and convection currents
* Explain how the greenhouse effect impacts the energy in the atmosphere
* Describe the transfer of energy in aiding plant growth

-------------------------------------------------------------------------------* Describe why latitude and the Earth’s tilt affects seasonal changes
* Explain how fronts cause weather changes
* Evaluate the relationship between air masses and climate
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|  | **Basic +****Score 2.5** | ***No major*** errors or omissions regarding any of the information and/or simpler details and processes (Basic, 2.0) and ***partial*** knowledge of the more complex ideas and processes (Proficient 3.0) |
| **Basic****Score 2.0** | ***No major*** errors or omissions regarding the simpler details and processes (Basic, 2.0), but ***major*** errors or omissions regarding the more complex ideas and processes (Proficient, 3.0). | AtmosphereSun’s EnergyFactors/Movements in Atmosphere  | *Student will be able to…** Recognize and recall specific terminology (e.g. air pressure, troposphere, stratosphere, mesosphere, thermosphere, etc); and
* Perform basic processes, such as…
	+ Identify the layers of the atmosphere
	+ Identify the majority gasses that make up the atmosphere

-------------------------------------------------------------------------------* Recognize and recall specific terminology (e.g. radiation, thermal conduction, convection currents, greenhouse effect, global warming, photosynthesis); and
* Perform basic processes, such as…
	+ List the types of energy that influence the atmosphere
	+ Provide examples of radiation, thermal conduction, and convection currents

-------------------------------------------------------------------------------* Recognize and recall specific terminology (e.g. latitude, elevation, surface current, Earth tilt, humidity, air mass, fronts, weather, climate); and
* Perform basic processes, such as…
	+ Identify factors that influence seasonal changes
	+ Provide ways that atmospheric movements can affect weather and climate
 |
| **Below Basic****Score 1.0** | A ***partial*** understanding of ***some*** of the simpler details and processes (Basic 2.0), but ***major*** errors or omissions regarding the more complex ideas and processes (3.0). |
| **Failing****Score 0** | ***No*** evidence or ***insufficient*** evidence of student learning. |