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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. | | Atmosphere  Sun’s Energy  Factors/  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. | | Atmosphere  Sun’s Energy  Factors/  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 |
|  | **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). | | Atmosphere  Sun’s Energy  Factors/  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. | | | |