

**The Nature of Science**  
**Measurement Topic: Scientific Knowledge**  
 Grade Five

**Evidence shows student has met or exceeded the learning target**

**Evidence shows misunderstanding, misconceptions, or omissions**

<b>4.0</b>	<b>In addition to score 3.0, in-depth inferences and applications that go beyond what was taught</b>
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
<b>Score 3.0</b>	<b>Student exhibits no major errors or omissions and demonstrates understanding by:</b> <ul style="list-style-type: none"> <li>• Comparing the results of similar experiments and determining reasons for any inconsistencies (UNIT: Introduction to Science)</li> <li>• Constructing reasonable scientific explanations supported by facts found in books or evidence from observations and/or investigations (UNIT: Introduction to Science)</li> <li>• Differentiating between observation and inference in scientific explanations (UNIT: Introduction to Science)</li> </ul>

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
<b>Score 2.0</b>	<b>Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as:</b> <ul style="list-style-type: none"> <li>• Recognizing or recalling specific terminology such as:           <ul style="list-style-type: none"> <li>○ Observation</li> <li>○ Inference</li> </ul> </li> <li>• Performing basic processes, such as:           <ul style="list-style-type: none"> <li>○ Recognizing or recalling examples of the reasons investigations might turn out differently</li> <li>○ Recognizing or recalling examples of appropriate evidence used to back up scientific explanations</li> </ul> </li> </ul>
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
<b>1.0</b>	<b>With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements</b>
0.5	With assistance, a partial understanding of some of score 2.0 elements but not score 3.0 elements

**The Nature of Science**  
**Measurement Topic: Scientific Inquiry – The Scientific Method**  
 Grade Five

**Evidence shows student has met or exceeded the learning target**

**Evidence shows misunderstanding, misconceptions, or omissions**

<b>4.0</b>	<b>In addition to score 3.0, in-depth inferences and applications that go beyond what was taught</b>
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
<b>Score 3.0</b>	<b>Student exhibits no major errors or omissions and demonstrates understanding by:</b> <ul style="list-style-type: none"> <li>• Proposing and testing independent and dependent variables in a controlled experiment (UNIT: Introduction to Science)</li> </ul>

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
<b>Score 2.0</b>	<b>Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as:</b> <ul style="list-style-type: none"> <li>• Recognizing or recalling specific terminology such as:           <ul style="list-style-type: none"> <li>○ Independent and dependent variables</li> <li>○ Controlled experiment</li> </ul> </li> <li>• Performing basic processes, such as:           <ul style="list-style-type: none"> <li>○ Differentiating between examples of independent and dependent variables</li> </ul> </li> </ul>
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
<b>1.0</b>	<b>With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements</b>
0.5	With assistance, a partial understanding of some of score 2.0 elements but not score 3.0 elements

**The Nature of Science**  
**Measurement Topic: Scientific Inquiry – Data Collection and Analysis**  
 Grade Five

**Evidence shows student has met or exceeded the learning target**

**Evidence shows misunderstanding, misconceptions, or omissions**

4.0	<b>In addition to score 3.0, in-depth inferences and applications that go beyond what was taught</b>
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
<b>Score 3.0</b>	<p><b>Student exhibits no major errors or omissions and demonstrates understanding by:</b></p> <ul style="list-style-type: none"> <li>• Making accurate measurements with appropriate units (centimeters, meters, Celsius, Fahrenheit, grams, seconds, minutes) (UNIT: Introduction to Science)</li> <li>• Safely using appropriate tools and simple equipment, for investigations, to gather scientific data and extend the senses (UNIT: Introduction to Science)</li> <li>• Communicating the results of investigations and describing the investigations in ways that enable others to repeat them (UNIT: Introduction to Science)</li> <li>• Organizing, displaying, and interpreting data from observations and investigations in simple bar graphs, line plots, line graphs, and/or stem-and-leaf plots (UNIT: Introduction to Science)</li> </ul>

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
<b>Score 2.0</b>	<p><b>Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as:</b></p> <ul style="list-style-type: none"> <li>• Recognizing or recalling specific terminology such as:             <ul style="list-style-type: none"> <li>○ Volume,</li> <li>○ Capacity</li> <li>○ Mass</li> <li>○ Temperature</li> </ul> </li> <li>• Performing basic processes, such as:             <ul style="list-style-type: none"> <li>○ Recognizing or recalling accurate statements about or examples of measurements of length, height, weight, mass, temperature, distance and area</li> <li>○ Recognizing or recalling accurate statements about safety procedures when conducting an investigation</li> <li>○ Recognizing or recalling accurate statements about the importance of keeping accurate records when performing investigations</li> <li>○ Recognizing or recalling examples of bar graphs, line plots and stem-and-leaf plots</li> </ul> </li> </ul>
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
<b>1.0</b>	<b>With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements</b>
0.5	With assistance, a partial understanding of some of score 2.0 elements but not score 3.0 elements

**The Nature of Science**  
**Measurement Topic: Scientific Enterprise – Science and Society**  
 Grade Five

**Evidence shows student has met or exceeded the learning target**

**Evidence shows misunderstanding, misconceptions, or omissions**

<b>4.0</b>	<b>In addition to score 3.0, in-depth inferences and applications that go beyond what was taught</b>
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
<b>Score 3.0</b>	<b>Student exhibits no major errors or omissions and demonstrates understanding by:</b> <ul style="list-style-type: none"> <li>• Identifying scientists of various groups (<i>i.e. gender, country of origin, socioeconomic status, age</i>) and their contributions (UNIT: Introduction to Science)</li> </ul>

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
<b>Score 2.0</b>	<b>Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as:</b> <ul style="list-style-type: none"> <li>• Recognizing or recalling specific terminology such as:           <ul style="list-style-type: none"> <li>○ Diversity</li> <li>○ Scientific enterprise</li> </ul> </li> <li>• Performing basic processes, such as:           <ul style="list-style-type: none"> <li>○ Recognizing or recalling accurate statements about scientists in a grade level curriculum appropriate area</li> </ul> </li> </ul>
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
<b>1.0</b>	<b>With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements</b>
0.5	With assistance, a partial understanding of some of score 2.0 elements but not score 3.0 elements

**The Nature of Science**  
**Measurement Topic: Common Themes in Science**  
 Grade Five

**Evidence shows student has met or exceeded the learning target**

**Evidence shows misunderstanding, misconceptions, or omissions**

<b>4.0</b>	<b>In addition to score 3.0, in-depth inferences and applications that go beyond what was taught</b>
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
<b>Score 3.0</b>	<b>Student exhibits no major errors or omissions and demonstrates understanding by:</b> <ul style="list-style-type: none"> <li>• Describing how the parts of a system work together (UNIT: Introduction to Science)</li> <li>• Identifying and measuring things that change and describing the different ways they change (UNIT: Introduction to Science)</li> <li>• Identifying objects that are at the extremes in size, weights, ages and speeds (UNIT: Introduction to Science)</li> <li>• Explaining the role of models in studying objects, events, and processes (UNIT: Introduction to Science)</li> </ul>

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
<b>Score 2.0</b>	<b>Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as:</b> <ul style="list-style-type: none"> <li>• Recognizing or recalling specific terminology such as:           <ul style="list-style-type: none"> <li>○ Scale</li> <li>○ Model</li> <li>○ System</li> </ul> </li> <li>• Performing basic processes, such as:           <ul style="list-style-type: none"> <li>○ Recognizing or recalling accurate statements about the parts of a system</li> <li>○ Recognizing or recalling examples of things that change</li> <li>○ Recognizing or recalling examples of extremes</li> <li>○ Identifying objects, events and processes that can be studied best by using models</li> </ul> </li> </ul>
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
<b>1.0</b>	<b>With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements</b>
0.5	With assistance, a partial understanding of some of score 2.0 elements but not score 3.0 elements

**The Nature of Science**  
**Measurement Topic: Technology**  
 Grade Five

**Evidence shows student has met or exceeded the learning target**

<b>4.0</b>	<b>In addition to score 3.0, in-depth inferences and applications that go beyond what was taught</b>
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
<b>Score 3.0</b>	<b>Student exhibits no major errors or omissions and demonstrates understanding by:</b> <ul style="list-style-type: none"> <li>• Describing some of the technologies that have advanced our knowledge of objects in space (UNIT: Earth in Space)</li> </ul>

**Evidence shows misunderstanding, misconceptions, or omissions**

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
<b>Score 2.0</b>	<b>Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as:</b> <ul style="list-style-type: none"> <li>• Recognizing or recalling specific terminology such as:           <ul style="list-style-type: none"> <li>○ Effects of technology</li> </ul> </li> <li>• Performing basic processes, such as:           <ul style="list-style-type: none"> <li>○ Recognizing or recalling examples of technology that has advanced our knowledge of space</li> </ul> </li> </ul>
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
<b>1.0</b>	<b>With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements</b>
0.5	With assistance, a partial understanding of some of score 2.0 elements but not score 3.0 elements

**The Living Environment**  
**Measurement Topic: Life Cycles of Plants and Animals**  
 Grade Five

**Evidence shows student has met or exceeded the learning target**

**Evidence shows misunderstanding, misconceptions, or omissions**

<b>4.0</b>	<b>In addition to score 3.0, in-depth inferences and applications that go beyond what was taught</b>
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
<b>Score 3.0</b>	<b>Student exhibits no major errors or omissions and demonstrates understanding by:</b> <ul style="list-style-type: none"> <li>• Explaining ways that the stages of an animal’s life cycle (including humans) contribute to the survival of the animal (UNIT: Animal Adaptations)</li> </ul>

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
<b>Score 2.0</b>	<b>Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as:</b> <ul style="list-style-type: none"> <li>• Performing basic processes, such as:           <ul style="list-style-type: none"> <li>○ Identifying the stages of an animal’s life cycle</li> </ul> </li> </ul>
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
<b>1.0</b>	<b>With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements</b>
0.5	With assistance, a partial understanding of some of score 2.0 elements but not score 3.0 elements

**The Living Environment**  
**Measurement Topic: Plant and Animal Adaptations**  
 Grade Five

**Evidence shows student has met or exceeded the learning target**

**Evidence shows misunderstanding, misconceptions, or omissions**

<b>4.0</b>	<b>In addition to score 3.0, in-depth inferences and applications that go beyond what was taught</b>
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
<b>Score 3.0</b>	<b>Student exhibits no major errors or omissions and demonstrates understanding by:</b> <ul style="list-style-type: none"> <li>• Identifying the adaptive features (<i>e.g., camouflage, behaviors, weapons</i>) of animals native to common habitats around the world (UNIT: Animal Adaptations)</li> </ul>

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
<b>Score 2.0</b>	<b>Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as:</b> <ul style="list-style-type: none"> <li>• Recognizing or recalling specific terminology such as:           <ul style="list-style-type: none"> <li>○ Camouflage</li> <li>○ Habitats</li> </ul> </li> <li>• Performing basic processes, such as:           <ul style="list-style-type: none"> <li>○ Recognizing or recalling accurate statements about the adaptive features of animals</li> </ul> </li> </ul>
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
<b>1.0</b>	<b>With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements</b>
0.5	With assistance, a partial understanding of some of score 2.0 elements but not score 3.0 elements

**The Living Environment**  
**Measurement Topic: Animal Body Structures and Functions**  
 Grade Five

**Evidence shows student has met or exceeded the learning target**

**Evidence shows misunderstanding, misconceptions, or omissions**

<b>4.0</b>	<b>In addition to score 3.0, in-depth inferences and applications that go beyond what was taught</b>
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
<b>Score 3.0</b>	<p><b>Student exhibits no major errors or omissions and demonstrates understanding by:</b></p> <ul style="list-style-type: none"> <li>• Identifying the external structures in a variety of animals from around the world that perform particular functions critical to the survival of the animals (<i>e.g., sensing structures, body coverings and coloration</i>) (UNIT: Animal Adaptations)</li> <li>• Describing the functions of human body systems (<i>e.g., digestive, circulatory, respiratory</i>) and major organs of the body (<i>e.g., heart, lungs, skin</i>) (UNIT: Body Systems)</li> </ul>

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
<b>Score 2.0</b>	<p><b>Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as:</b></p> <ul style="list-style-type: none"> <li>• Recognizing or recalling specific terminology such as:             <ul style="list-style-type: none"> <li>○ External vs. internal structures</li> <li>○ Endocrine system</li> <li>○ Kidneys</li> </ul> </li> <li>• Performing basic processes, such as:             <ul style="list-style-type: none"> <li>○ Recognizing or recalling accurate statements about animal external structures and their functions</li> <li>○ Recognizing or recalling accurate statements about the major organs of the body</li> <li>○ Recognizing or recalling accurate statements about the functions of body systems</li> </ul> </li> </ul>
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
<b>1.0</b>	<b>With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements</b>
0.5	With assistance, a partial understanding of some of score 2.0 elements but not score 3.0 elements

**Physical Science**  
**Measurement Topic: Physical States and Changes**  
 Grade Five

**Evidence shows student has met or exceeded the learning target**

**Evidence shows misunderstanding, misconceptions, or omissions**

<b>4.0</b>	<b>In addition to score 3.0, in-depth inferences and applications that go beyond what was taught</b>
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
<b>Score 3.0</b>	<b>Student exhibits no major errors or omissions and demonstrates understanding by:</b> <ul style="list-style-type: none"> <li>• Comparing and contrasting the three states of matter by observable characteristics (UNIT: States of Matter)</li> <li>• Explaining the relationship between the temperature of an object and its state (UNIT: States of Matter)</li> <li>• Describing the unique properties of water (expansion and contraction) as it is heated and cooled (UNIT: States of Matter)</li> </ul>

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
<b>Score 2.0</b>	<b>Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as:</b> <ul style="list-style-type: none"> <li>• Recognizing or recalling specific terminology such as:           <ul style="list-style-type: none"> <li>○ States of matter</li> <li>○ Temperature</li> <li>○ Expansion/Contraction</li> </ul> </li> <li>• Performing basic processes, such as:           <ul style="list-style-type: none"> <li>○ Recognizing or recalling accurate statements about the three states of matter</li> <li>○ Recognizing or recalling accurate statements about the properties of water as it is heated and cooled</li> </ul> </li> </ul>
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
<b>1.0</b>	<b>With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements</b>
0.5	With assistance, a partial understanding of some of score 2.0 elements but not score 3.0 elements

**Physical Science**  
**Measurement Topic: Measuring Motion**  
 Grade Five

**Evidence shows student has met or exceeded the learning target**

**Evidence shows misunderstanding, misconceptions, or omissions**

<b>4.0</b>	<b>In addition to score 3.0, in-depth inferences and applications that go beyond what was taught</b>
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
<b>Score 3.0</b>	<b>Student exhibits no major errors or omissions and demonstrates understanding by:</b> <ul style="list-style-type: none"> <li>• Describing the position and change in position (motion) of an object in comparison to a reference point (UNIT: Motion and Forces)</li> <li>• Calculating the speed of objects based on the distance traveled divided by the time it took to travel the distance (UNIT: Motion and Forces)</li> </ul>

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
<b>Score 2.0</b>	<b>Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as:</b> <ul style="list-style-type: none"> <li>• Recognizing or recalling specific terminology such as:           <ul style="list-style-type: none"> <li>○ Reference point</li> <li>○ Speed</li> </ul> </li> <li>• Performing basic processes, such as:           <ul style="list-style-type: none"> <li>○ Describing the direction and recognizing the correct speed of an object in motion</li> </ul> </li> </ul>
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
<b>1.0</b>	<b>With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements</b>
0.5	With assistance, a partial understanding of some of score 2.0 elements but not score 3.0 elements

**Physical Science**  
**Measurement Topic: Effects on Motion**  
 Grade Five

**Evidence shows student has met or exceeded the learning target**

**Evidence shows misunderstanding, misconceptions, or omissions**

<b>4.0</b>	<b>In addition to score 3.0, in-depth inferences and applications that go beyond what was taught</b>
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
<b>Score 3.0</b>	<b>Student exhibits no major errors or omissions and demonstrates understanding by:</b> <ul style="list-style-type: none"> <li>• Analyzing changing motion of objects and identifying forces acting on the object to cause change in motion (Unit: Motion and Forces)</li> <li>• Explaining how the change in motion of an object is related to the strength of the force acting upon the object and to the mass of the object (UNIT: Motion and Forces)</li> </ul>

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
<b>Score 2.0</b>	<b>Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as:</b> <ul style="list-style-type: none"> <li>• Recognizing or recalling specific terminology such as:           <ul style="list-style-type: none"> <li>○ Force</li> <li>○ Mass</li> </ul> </li> <li>• Performing basic processes, such as:           <ul style="list-style-type: none"> <li>○ Identifying forces (often multiple) acting on various objects in motion and at rest</li> <li>○ Recognizing or recalling accurate statements about the relationship between the change in motion and the mass of an object and the strength of the force acting upon it</li> </ul> </li> </ul>
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
<b>1.0</b>	<b>With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements</b>
0.5	With assistance, a partial understanding of some of score 2.0 elements but not score 3.0 elements

**Physical Science**  
**Measurement Topic: Chemical Changes**  
 Grade Five

**Evidence shows student has met or exceeded the learning target**

4.0	<b>In addition to score 3.0, in-depth inferences and applications that go beyond what was taught</b>
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
<b>Score 3.0</b>	<b>Student exhibits no major errors or omissions and demonstrates understanding by:</b> <ul style="list-style-type: none"> <li>• Classifying reactions as chemical or not based on the presence of color change, odor, light or heat emission, and/or gas (UNIT: Mixtures and Solutions)</li> </ul>

**Evidence shows misunderstanding, misconceptions, or omissions**

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
<b>Score 2.0</b>	<b>Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as:</b> <ul style="list-style-type: none"> <li>• Recognizing or recalling specific terminology such as:           <ul style="list-style-type: none"> <li>○ Chemical reaction</li> </ul> </li> <li>• Performing basic processes, such as:           <ul style="list-style-type: none"> <li>○ Recognizing or recalling accurate statements about the characteristics of chemical changes</li> </ul> </li> </ul>
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
<b>1.0</b>	<b>With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements</b>
0.5	With assistance, a partial understanding of some of score 2.0 elements but not score 3.0 elements

**Physical Science**  
**Measurement Topic: Mixtures and Solutions**  
 Grade Five

**Evidence shows student has met or exceeded the learning target**

**Evidence shows misunderstanding, misconceptions, or omissions**

<b>4.0</b>	<b>In addition to score 3.0, in-depth inferences and applications that go beyond what was taught</b>
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
<b>Score 3.0</b>	<b>Student exhibits no major errors or omissions and demonstrates understanding by:</b> <ul style="list-style-type: none"> <li>• Determining the appropriate tools and processes (magnet, filter, evaporation, ) needed to separate various mixtures (UNIT: Mixtures and Solutions)</li> <li>• Describing factors that influence saturation in a solution (UNIT: Mixtures and Solutions)</li> <li>• Describing the appropriate tools and senses needed to determine the concentration levels of various solutions (UNIT: Mixtures and Solutions)</li> </ul>

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
<b>Score 2.0</b>	<b>Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as:</b> <ul style="list-style-type: none"> <li>• Recognizing or recalling specific terminology such as:             <ul style="list-style-type: none"> <li>○ Solution</li> <li>○ Concentration</li> </ul> </li> <li>• Performing basic processes, such as:             <ul style="list-style-type: none"> <li>○ Recognizing or recalling examples of tools used to determine the concentration level of solutions</li> <li>○ Recognizing or recalling the factors that affect saturation in solutions</li> </ul> </li> </ul>
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
<b>1.0</b>	<b>With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements</b>
0.5	With assistance, a partial understanding of some of score 2.0 elements but not score 3.0 elements

**Physical Science**  
**Measurement Topic: Simple Machines**  
 Grade Five

**Evidence shows student has met or exceeded the learning target**

**Evidence shows misunderstanding, misconceptions, or omissions**

<b>4.0</b>	<b>In addition to score 3.0, in-depth inferences and applications that go beyond what was taught</b>
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
<b>Score 3.0</b>	<b>Student exhibits no major errors or omissions and demonstrates understanding by:</b> <ul style="list-style-type: none"> <li>• Describing real world applications of simple machines at home and in school (UNIT: Simple Machines)</li> <li>• Explaining how the amount of force needed to do work changes with the application of simple machines (UNIT: Simple Machines)</li> </ul>

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
<b>Score 2.0</b>	<b>Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as:</b> <ul style="list-style-type: none"> <li>• Recognizing or recalling specific terminology such as:           <ul style="list-style-type: none"> <li>○ Work</li> </ul> </li> <li>• Performing basic processes, such as:           <ul style="list-style-type: none"> <li>○ Recognizing or recalling examples of real life applications of simple machines</li> </ul> </li> </ul>
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
<b>1.0</b>	<b>With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements</b>
0.5	With assistance, a partial understanding of some of score 2.0 elements but not score 3.0 elements

**Earth and Space Science**  
**Measurement Topic: Interaction of the Sun, Earth, and Moon**  
 Grade Five

**Evidence shows student has met or exceeded the learning target**

**Evidence shows misunderstanding, misconceptions, or omissions**

<b>4.0</b>	<b>In addition to score 3.0, in-depth inferences and applications that go beyond what was taught</b>
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
<b>Score 3.0</b>	<b>Student exhibits no major errors or omissions and demonstrates understanding by:</b> <ul style="list-style-type: none"> <li>• Describing the correlation between the rotation and revolution of the Earth and our days, nights and years (UNIT: Earth in Space)</li> <li>• Describing the pattern of changes in the appearance of the moon throughout the cycle (UNIT: Earth in Space)</li> <li>• Describing the rotation and revolution of the Moon around Earth (UNIT: Earth in Space)</li> </ul>

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
<b>Score 2.0</b>	<b>Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as:</b> <ul style="list-style-type: none"> <li>• Recognizing or recalling specific terminology such as:           <ul style="list-style-type: none"> <li>○ Rotation</li> <li>○ Revolution</li> </ul> </li> <li>• Performing basic processes, such as:           <ul style="list-style-type: none"> <li>○ Recognizing or recalling accurate statements about the revolution and rotation of the earth</li> <li>○ Recognizing or recalling accurate statements about the pattern of changes in the appearance of the Moon</li> <li>○ Recognizing or recalling accurate statements about the rotation and revolution of the Moon</li> </ul> </li> </ul>
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
<b>1.0</b>	<b>With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements</b>
0.5	With assistance, a partial understanding of some of score 2.0 elements but not score 3.0 elements

**Earth and Space Science**  
**Measurement Topic: Characteristics of Objects in Space**  
 Grade Five

**Evidence shows student has met or exceeded the learning target**

**Evidence shows misunderstanding, misconceptions, or omissions**

<b>4.0</b>	<b>In addition to score 3.0, in-depth inferences and applications that go beyond what was taught</b>
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
<b>Score 3.0</b>	<b>Student exhibits no major errors or omissions and demonstrates understanding by:</b> <ul style="list-style-type: none"> <li>• Describing the major characteristics of the Sun, Moon, and planets (UNIT: Earth in Space)</li> <li>• Describing the motion and relative distance of the planets around the Sun (UNIT: Earth in Space)</li> <li>• Describing characteristics of stars (UNIT: Earth in Space)</li> </ul>

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
<b>Score 2.0</b>	<b>Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as:</b> <ul style="list-style-type: none"> <li>• Recognizing or recalling specific terminology such as:           <ul style="list-style-type: none"> <li>○ Relative distance</li> <li>○ Constellation</li> </ul> </li> <li>• Performing basic processes, such as:           <ul style="list-style-type: none"> <li>○ Recognizing or recalling accurate statements about or examples of the major characteristics of the sun, moon and planets</li> <li>○ Recognizing or recalling accurate statements about the motion and relative distance of the planets around the Sun</li> <li>○ Recognizing or recalling accurate statements about the characteristics of stars</li> </ul> </li> </ul>
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
<b>1.0</b>	<b>With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements</b>
0.5	With assistance, a partial understanding of some of score 2.0 elements but not score 3.0 elements