

The Nature of Science
Measurement Topic: Scientific Knowledge
 Grade Six

Evidence shows student has met or exceeded the learning target

Evidence shows misunderstanding, misconceptions, or omissions

4.0	In addition to score 3.0, in-depth inferences and applications that go beyond what was taught
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
Score 3.0	Student exhibits no major errors or omissions and demonstrates understanding by: <ul style="list-style-type: none"> • Analyzing similar investigations that yield different results to determine the cause of the difference and developing a plan to eliminate the variables (UNIT: Introduction to Science) • Tracing the development of an idea to a scientific theory (UNIT: Introduction to Science)

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
Score 2.0	Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as: <ul style="list-style-type: none"> • Recognizing or recalling specific terminology such as: <ul style="list-style-type: none"> ○ Scientific theory • Performing basic processes, such as: <ul style="list-style-type: none"> ○ Recognizing or recalling accurate statements about the variables that exist in investigations ○ Recognizing or recalling accurate statements about theories and hypotheses
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
1.0	With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements
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 – Scientific Method
 Grade Six

Evidence shows student has met or exceeded the learning target

Evidence shows misunderstanding, misconceptions, or omissions

4.0	In addition to score 3.0, in-depth inferences and applications that go beyond what was taught
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
Score 3.0	<p>Student exhibits no major errors or omissions and demonstrates understanding by:</p> <ul style="list-style-type: none"> • Proposing questions and hypotheses that can be studied through scientific investigations and distinguishing them from questions and hypotheses that cannot be examined scientifically (UNIT: Introduction to Science) • Explaining why only one variable(<i>e.g., independent, dependent, control</i>) can be manipulated at a time (UNIT: Introduction to Science) • Describing why questioning, response to criticism, replication, accurate record keeping, and open communication are integral to the process of science (UNIT: Introduction to Science)

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
Score 2.0	<p>Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as:</p> <ul style="list-style-type: none"> • Recognizing or recalling specific terminology such as: <ul style="list-style-type: none"> ○ Hypothesis ○ Independent/dependent variable ○ Control • Performing basic processes, such as: <ul style="list-style-type: none"> ○ Identifying examples of questions and hypotheses that can be studied through scientific investigations ○ Identifying the variables (<i>e.g., independent, dependent, control</i>) in a scientific investigation ○ Recognizing or recalling accurate statements about the role of questioning and defending in the scientific process
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
1.0	With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements
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 Six

Evidence shows student has met or exceeded the learning target

Evidence shows misunderstanding, misconceptions, or omissions

4.0	In addition to score 3.0, in-depth inferences and applications that go beyond what was taught
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
Score 3.0	<p>Student exhibits no major errors or omissions and demonstrates understanding by:</p> <ul style="list-style-type: none"> • Using appropriate tools, technologies and metric measurements to gather, organize and report results for investigations (UNIT: Introduction to Science) • Describing basic safety procedures in science such as recognizing potential hazards, cautiously manipulating materials and equipment and conducting appropriate procedures (UNIT: Introduction to Science) • Organizing, displaying, and interpreting scientific data from investigations in tables, graphs (e.g. line, circle, bar, histogram) and plots (e.g. stem-and-leaf, box-and-whisker, scatter) (UNIT: Introduction to Science) • Interpreting and evaluating tables, charts, and graphs produced by others (UNIT: Introduction to Science) • Citing evidence from tables, charts, and/or graphs in making arguments and claims in oral and written reports (UNIT: Introduction to Science)

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
Score 2.0	<p>Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as:</p> <ul style="list-style-type: none"> • Recognizing or recalling specific terminology such as: <ul style="list-style-type: none"> ○ Stem-and-leaf ○ Box-and-whisker ○ Scatter • Performing basic processes, such as: <ul style="list-style-type: none"> ○ Recognizing or recalling examples of tools and technologies used in investigations to gather, organize and report scientific results ○ Recognizing or recalling accurate statements about safety procedures ○ Recognizing or recalling accurate statements about scientific data and interpretation of tables, graphs and plots and the interpretation ○ Citing evidence using a teacher provided template
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
1.0	With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements
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 Six

Evidence shows student has met or exceeded the learning target

Evidence shows misunderstanding, misconceptions, or omissions

4.0	In addition to score 3.0, in-depth inferences and applications that go beyond what was taught
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
Score 3.0	Student exhibits no major errors or omissions and demonstrates understanding by: <ul style="list-style-type: none"> • Describing ways in which science and society influence one another (UNIT: Introduction to Science) • Describing the diverse nature of science and scientists past and present (UNIT: Introduction to Science)

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
Score 2.0	Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as: <ul style="list-style-type: none"> • Recognizing or recalling specific terminology such as: <ul style="list-style-type: none"> ○ Diversity ○ Scientific enterprise • Performing basic processes, such as: <ul style="list-style-type: none"> ○ Recognizing or recalling accurate statements about the ways in which science and society influence one another ○ Recognizing or recalling accurate statements about scientists in a grade level curriculum appropriate area
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
1.0	With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements
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 Six

Evidence shows student has met or exceeded the learning target

Evidence shows misunderstanding, misconceptions, or omissions

4.0	In addition to score 3.0, in-depth inferences and applications that go beyond what was taught
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
Score 3.0	Student exhibits no major errors or omissions and demonstrates understanding by: <ul style="list-style-type: none"> • Analyzing the parts, subsystems and interactions of a system (UNIT: Introduction to Science) • Measuring and graphing change over time and analyzing the results to determine patterns and trends or predict events (UNIT: Introduction to Science) • Comparing and contrasting the properties of objects as they change in scale (UNIT: Introduction to Science)

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
Score 2.0	Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as: <ul style="list-style-type: none"> • Recognizing or recalling specific terminology such as: <ul style="list-style-type: none"> ○ Subsystems • Performing basic processes, such as: <ul style="list-style-type: none"> ○ Recognizing or recalling accurate statements about the parts, subsystems and interactions of a system ○ describing patterns of change based on given graphs ○ Recognizing or recalling accurate statements about the properties of objects as they change in scale
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
1.0	With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements
0.5	With assistance, a partial understanding of some of score 2.0 elements but not score 3.0 elements

Physical Science
Measurement Topic: Forms of Energy and Their Interactions
 Grade Six

Evidence shows student has met or exceeded the learning target

Evidence shows misunderstanding, misconceptions, or omissions

4.0	In addition to score 3.0, in-depth inferences and applications that go beyond what was taught
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
Score 3.0	Student exhibits no major errors or omissions and demonstrates understanding by: <ul style="list-style-type: none"> • Describing the various forms of potential (chemical, elastic, gravitational) and kinetic (energy of motion) energy (UNIT: Energy) • Tracing the conversion of energy from one form to another in a system (UNIT: Energy) • Explaining the law of conservation of energy (UNIT: Energy)

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
Score 2.0	Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as: <ul style="list-style-type: none"> • Recognizing or recalling specific terminology such as: <ul style="list-style-type: none"> ○ Potential and kinetic energy • Performing basic processes, such as: <ul style="list-style-type: none"> ○ Recognizing or recalling accurate statements about the forms of potential and kinetic energy ○ Recognizing or recalling individual components of the law of conservation of energy ○ Recognizing or recalling accurate statements about the conversion of energy from one form to another in a system
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
1.0	With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements
0.5	With assistance, a partial understanding of some of score 2.0 elements but not score 3.0 elements

Physical Science
Measurement Topic: Energy Resources
 Grade Six

Evidence shows student has met or exceeded the learning target

Evidence shows misunderstanding, misconceptions, or omissions

4.0	In addition to score 3.0, in-depth inferences and applications that go beyond what was taught
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
Score 3.0	Student exhibits no major errors or omissions and demonstrates understanding by: <ul style="list-style-type: none"> • Evaluating energy sources in terms of advantages and disadvantages (<i>e.g. cost, environmental consequences, sustainability</i>) (UNIT: Energy)

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
Score 2.0	Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as: <ul style="list-style-type: none"> • Recognizing or recalling specific terminology such as: <ul style="list-style-type: none"> ○ Renewable ○ Non-renewable • Performing basic processes, such as: <ul style="list-style-type: none"> ○ Describing the advantages and disadvantages of given energy sources
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
1.0	With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements
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: The Changing Earth
 Grade Six

Evidence shows student has met or exceeded the learning target

Evidence shows misunderstanding, misconceptions, or omissions

4.0	In addition to score 3.0, in-depth inferences and applications that go beyond what was taught
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
Score 3.0	<p>Student exhibits no major errors or omissions and demonstrates understanding by:</p> <ul style="list-style-type: none"> • Analyzing and describing the Earth’s surface features using maps (UNIT: Geology) • Describing agents of physical and chemical weathering and explaining their connection to the formation of soil and sediment (UNIT: Geology) • Analyzing how physical/mechanical weathering (<i>e.g., waves, wind, water, and glacier movement</i>) shape and reshape Earth’s surface over time (UNIT: Geology) • Describing the three primary types of plate boundaries and the landforms associated with each (UNIT: Geology) • Comparing the physical properties of the interior layers of Earth (UNIT: Geology) • Describing major geological events (mountain building, earthquakes, volcanic eruptions) as processes resulting from heat flow and movement of material within Earth (UNIT: Geology) • Describing ways scientists learn about Earth’s geologic history (<i>e.g., seismographs, ground penetrating radar, core drillers, observations</i>) (UNIT: Geology)

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
Score 2.0	<p>Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as:</p> <ul style="list-style-type: none"> • Recognizing or recalling specific terminology such as: <ul style="list-style-type: none"> ○ Chemical weathering ○ Convergent boundary/divergent boundary • Performing basic processes, such as: <ul style="list-style-type: none"> ○ Recognizing or recalling accurate statements about or examples of the Earth’s surface features ○ Recognizing or recalling examples of physical and chemical weathering ○ Recognizing or recalling accurate statements about the formation of soil ○ Recognizing or recalling accurate statements about the role of physical and mechanical weathering in shaping and reshaping Earth’s surface over time ○ Recognizing or recalling examples of the 3 primary types of plate boundaries and the landforms associated with each ○ Recognizing or recalling accurate statements about the physical properties of the interior layers of the earth ○ Recognizing or recalling examples of tools used by geologists ○ Recognizing or recalling accurate statements about the processes involved in major geologic events
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements

1.0	With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements
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: Earth Materials and Responsible Use
 Grade Six

Evidence shows student has met or exceeded the learning target

Evidence shows misunderstanding, misconceptions, or omissions

4.0	In addition to score 3.0, in-depth inferences and applications that go beyond what was taught
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
Score 3.0	Student exhibits no major errors or omissions and demonstrates understanding by: <ul style="list-style-type: none"> • Classifying sedimentary, igneous and metamorphic rocks (UNIT: Geology) • Analyzing observable and measurable soil properties to predict soil quality (UNIT: Geology)

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
Score 2.0	Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as: <ul style="list-style-type: none"> • Recognizing or recalling specific terminology such as: <ul style="list-style-type: none"> ○ Igneous ○ Horizon ○ Profile • Performing basic processes, such as: <ul style="list-style-type: none"> ○ Recognizing or recalling accurate statements about the classification of rocks ○ Recognizing or recalling accurate statements about the quality of soils
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
1.0	With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements
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: Water on Earth
 Grade Six

Evidence shows student has met or exceeded the learning target

Evidence shows misunderstanding, misconceptions, or omissions

4.0	In addition to score 3.0, in-depth inferences and applications that go beyond what was taught
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
Score 3.0	Student exhibits no major errors or omissions and demonstrates understanding by: <ul style="list-style-type: none"> • Describing the basic distinguishing characteristics of various locations of water on Earth (<i>e.g. glaciers, ice caps, oceans, wetlands, etc.</i>) (UNIT: Weather and Water) • Describing the various paths a water molecule might follow in the water cycle and explaining factors that influence each path (UNIT: Weather and Water)

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
Score 2.0	Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as: <ul style="list-style-type: none"> • Recognizing or recalling specific terminology such as: <ul style="list-style-type: none"> ○ Glacier ○ Wetland ○ Watershed • Performing basic processes, such as: <ul style="list-style-type: none"> ○ Recognizing or recalling accurate statements about the characteristics of various locations of water on earth ○ Recognizing or recalling accurate statements about the paths taken by a water molecule in the water cycle
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
1.0	With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements
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: Atmosphere
 Grade Six

Evidence shows student has met or exceeded the learning target

Evidence shows misunderstanding, misconceptions, or omissions

4.0	In addition to score 3.0, in-depth inferences and applications that go beyond what was taught
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
Score 3.0	Student exhibits no major errors or omissions and demonstrates understanding by: <ul style="list-style-type: none"> • Describing the composition, characteristics, and structure of the Earth's atmosphere (UNIT: Weather and Water)

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
Score 2.0	Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as: <ul style="list-style-type: none"> • Recognizing or recalling specific terminology such as: <ul style="list-style-type: none"> ○ Exosphere ○ Thermosphere • Performing basic processes, such as: <ul style="list-style-type: none"> ○ Recognizing or recalling accurate statements about the Earth's atmosphere
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
1.0	With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements
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: Weather and Climate
 Grade Six

Evidence shows student has met or exceeded the learning target

Evidence shows misunderstanding, misconceptions, or omissions

4.0	In addition to score 3.0, in-depth inferences and applications that go beyond what was taught
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
Score 3.0	Student exhibits no major errors or omissions and demonstrates understanding by: <ul style="list-style-type: none"> • Analyzing common weather instruments (UNIT: Weather and Water) • Interpreting weather maps to describe local, regional and national weather conditions (UNIT: Weather and Water) • Explaining how the interaction of air masses influences weather conditions (UNIT: Weather and Water) • Analyzing how radiant energy from the sun heats earth materials and influences weather (UNIT: Weather and Water) • Comparing and contrasting climate regions around the world (UNIT: Weather and Water)

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
Score 2.0	Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as: <ul style="list-style-type: none"> • Recognizing or recalling specific terminology such as: <ul style="list-style-type: none"> ○ Doppler Radar ○ Air mass • Performing basic processes, such as: <ul style="list-style-type: none"> ○ Recognizing or recalling accurate statements about weather maps ○ Recognizing or recalling accurate statements about the interaction of air masses and their influence of weather conditions ○ Recognizing or recalling accurate statements about the effect of the sun’s energy on weather patterns ○ Recognizing or recalling accurate statements about the effect of geography on weather and climate
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
1.0	With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements
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 Six

Evidence shows student has met or exceeded the learning target

Evidence shows misunderstanding, misconceptions, or omissions

4.0	In addition to score 3.0, in-depth inferences and applications that go beyond what was taught
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
Score 3.0	<p>Student exhibits no major errors or omissions and demonstrates understanding by:</p> <ul style="list-style-type: none"> • Comparing and contrasting the major characteristics of bodies in the Solar System (UNIT: Earth in Space) • Describing basic characteristics of the Milky Way and recognizing it as one galaxy among billions in the universe (UNIT: Earth in Space) • Comparing the size and distance of objects within systems in the universe using either astronomical units or light years, depending on the distance (UNIT: Earth in Space) • Describing the appearance and apparent motion of groups of stars in the night sky relative to Earth and how various cultures have understood and used them for navigation and calendars (UNIT: Earth in Space)

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
Score 2.0	<p>Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as:</p> <ul style="list-style-type: none"> • Recognizing or recalling specific terminology such as: <ul style="list-style-type: none"> ○ Galaxy ○ Astronomical unit ○ Light year • Performing basic processes, such as: <ul style="list-style-type: none"> ○ Recognizing or recalling accurate statements about or examples of the major characteristics of bodies in the Solar System ○ Recognizing or recalling accurate statements about the characteristics of the Milky Way ○ Recognizing or recalling accurate statements about the size and distance between objects in the universe
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
1.0	With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements
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 Six

Evidence shows student has met or exceeded the learning target

Evidence shows misunderstanding, misconceptions, or omissions

4.0	In addition to score 3.0, in-depth inferences and applications that go beyond what was taught
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
Score 3.0	<p>Student exhibits no major errors or omissions and demonstrates understanding by:</p> <ul style="list-style-type: none"> • Explaining how the rotation and revolution of Earth and the tilt of Earth on its axis cause observed phenomena on Earth such as days/nights and seasons (UNIT: Earth in Space) • Comparing and contrasting the ideas of Ptolemy, Aristotle, Copernicus, and Galileo regarding Earth’s position and motion in space (UNIT: Earth in Space) • Explaining tides (high, low, neap, spring) as they relate to the position and gravitational force of the Sun and Moon (UNIT: Earth in Space) • Correlating the pattern of change in the location and phase of the Moon with the actual motion of the Moon around Earth (UNIT: Earth in Space) • Describing how the relative positions of the Sun, Earth, and Moon can result in solar and lunar eclipses (UNIT: Earth in Space) • Analyzing and describing the role of gravity in celestial phenomena (UNIT: Earth in Space)

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
Score 2.0	<p>Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as:</p> <ul style="list-style-type: none"> • Recognizing or recalling specific terminology such as: <ul style="list-style-type: none"> ○ Axis ○ Neap tide ○ Moon phases • Performing basic processes, such as: <ul style="list-style-type: none"> ○ Recognizing or recalling examples of constellations ○ Recognizing or recalling accurate statements about the relationship between the rotation, revolution and tilt of the earth on days, nights and seasons ○ Recognizing or recalling accurate statements about tides ○ Recognizing or recalling accurate statements about the relationship between the phases of the moon and the motion of the moon around the earth ○ Recognizing or recalling accurate statements solar and lunar eclipses
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
1.0	With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements
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: Earth Systems
 Grade Six

Evidence shows student has met or exceeded the learning target

Evidence shows misunderstanding, misconceptions, or omissions

4.0	In addition to score 3.0, in-depth inferences and applications that go beyond what was taught
3.5	In addition to score 3.0, in-depth inferences and applications with partial success
Score 3.0	Student exhibits no major errors or omissions and demonstrates understanding by: <ul style="list-style-type: none"> • Comparing the Earth system (hydrosphere, atmosphere, lithosphere, biosphere, cryosphere, anthrosphere) to other systems of parts that make up a whole (UNIT: Earth Systems) • Comparing and contrasting different types of systems (open, closed) and identifying what makes Earth an open mechanistic system (UNIT: Earth Systems) • Analyzing various events on Earth (<i>e.g., a volcano erupting</i>) and describing the impact they have across multiple spheres of the Earth (UNIT: Earth Systems)

2.5	No major errors or omissions regarding score 2.0 elements with partial knowledge of score 3.0 elements
Score 2.0	Student exhibits major errors or omissions with score 3.0 elements. No major omissions regarding the simpler details and processes such as: <ul style="list-style-type: none"> • Recognizing or recalling specific terminology such as: <ul style="list-style-type: none"> ○ Hydrosphere ○ Atmosphere ○ Open system • Performing basic processes, such as: <ul style="list-style-type: none"> ○ Recognizing or recalling accurate statements about the earth system ○ Recognizing or recalling accurate statements about different types of systems and what makes Earth an open mechanistic system ○ Recognizing or recalling examples of the impact an event can have on other parts of the earth system
1.5	Partial knowledge of score 2.0 elements Major errors or omissions regarding score 3.0 elements
1.0	With assistance, student demonstrates partial understanding of some of score 2.0 elements and some of score 3.0 elements
0.5	With assistance, a partial understanding of some of score 2.0 elements but not score 3.0 elements