

Elements and Compounds

Process: Tools to Know		Notes	Check Up		
Planning/ Performing Investigations	<input type="checkbox"/> I can plan, design, and implement an investigation. 6.2(A), 6.2(B)				
Using Scientific Tools	<input type="checkbox"/> I can collect, record, and analyze information using scientific tools. 6.4(A)				

Content		Notes	Check Up		
Elements and Compounds	<input type="checkbox"/> I can tell the difference between an element and a compound. 6.5(A)				
	<input type="checkbox"/> I can identify that very few of the many known elements make up the largest portion of solid Earth, living matter, oceans, and the atmosphere. 6.5(B)				
Chemical Change	<input type="checkbox"/> I can describe the formation of a new substance using evidence of a chemical change. 6.5(C) <ul style="list-style-type: none"> <input type="checkbox"/> production of a gas <input type="checkbox"/> change in temperature <input type="checkbox"/> production of a precipitate <input type="checkbox"/> color change 				

Process: Ways to Show		Notes	Check Up		
Interpreting Information	<input type="checkbox"/> I can analyze and formulate explanations, communicate conclusions, and predict trends. 6.2(E)				
Constructing Models	<input type="checkbox"/> I can use models to represent the natural world. 6.3(B)				

Physical Properties of Matter

Process: Tools to Know		Notes	Check Up		
Planning/ Performing Investigations	<input type="checkbox"/> I can plan, design, and implement an investigation. 6.2(A), 6.2(B)				
Using Scientific Tools	<input type="checkbox"/> I can collect, record, and analyze information using scientific tools. 6.4(A)				

Content		Notes	Check Up		
Properties of Matter	<input type="checkbox"/> I can compare metals, nonmetals, and metalloids using physical properties. 6.6(A) <input type="checkbox"/> luster <input type="checkbox"/> conductivity <input type="checkbox"/> malleability				
	<input type="checkbox"/> I can test the physical properties of minerals. 6.6(C) <input type="checkbox"/> hardness <input type="checkbox"/> color <input type="checkbox"/> luster <input type="checkbox"/> streak				
Density	<input type="checkbox"/> I can calculate density of an object using measurements. 6.6(B) <input type="checkbox"/> mass <input type="checkbox"/> volume				
	<input type="checkbox"/> I can identify an unknown substance using its density. 6.6(B)				

Process: Ways to Show		Notes	Check Up		
Interpreting Information	<input type="checkbox"/> I can analyze and formulate explanations, communicate conclusions, and predict trends. 6.2(E)				
Constructing Models	<input type="checkbox"/> I can use models to represent the natural world. 6.3(B)				

Earth's Resources

Process: Tools to Know		Notes	Check Up		
Planning/ Performing Investigations	<input type="checkbox"/> I can plan, design, and implement an investigation. 6.2(A), 6.2(B)				
Using Scientific Tools	<input type="checkbox"/> I can collect, record, and analyze information using scientific tools. 6.4(A)				

Content		Notes	Check Up		
Energy Resources	<input type="checkbox"/> I can describe advantages and disadvantages of using energy resources. 6.7(A) <ul style="list-style-type: none"> <input type="checkbox"/> coal <input type="checkbox"/> oil <input type="checkbox"/> natural gas <input type="checkbox"/> nuclear power <input type="checkbox"/> biomass <input type="checkbox"/> wind <input type="checkbox"/> hydropower <input type="checkbox"/> geothermal <input type="checkbox"/> solar 				

Process: Ways to Show		Notes	Check Up		
Interpreting Information	<input type="checkbox"/> I can analyze and formulate explanations, communicate conclusions, and predict trends. 6.2(E)				
Critiquing Scientific Explanations	<input type="checkbox"/> I can analyze, evaluate, and critique scientific explanations using evidence, reasoning, and experiments. 6.3(A)				

Force, Motion, Potential, and Kinetic Energy

Process: Tools to Know		Notes	Check Up		
Planning/ Performing Investigations	<input type="checkbox"/> I can plan, design, and implement an investigation. 6.2(A), 6.2(B)				
Using Scientific Tools	<input type="checkbox"/> I can collect, record, and analyze information using scientific tools. 6.4(A)				

Content		Notes	Check Up		
Potential and Kinetic Energy	<input type="checkbox"/> I can compare and contrast potential and kinetic energy. 6.8(A)				
Motion	<input type="checkbox"/> I can calculate average speed using measurements. 6.8(C) <input type="checkbox"/> distance <input type="checkbox"/> time				
	<input type="checkbox"/> I can identify and describe the changes to an object when acted upon by unbalanced forces. 6.8(B) <input type="checkbox"/> position <input type="checkbox"/> direction <input type="checkbox"/> speed				
	<input type="checkbox"/> I can analyze graphs for changes in motion. 6.8(D)				
	<input type="checkbox"/> I can describe how inclined planes can be used to change the amount of force needed to move an object. 6.8(E)				

Process: Ways to Show		Notes	Check Up		
Interpreting Information	<input type="checkbox"/> I can construct tables and graphs to organize data and identify patterns. 6.2(D)				
	<input type="checkbox"/> I can analyze and formulate explanations, communicate conclusions, and predict trends. 6.2(E)				
Constructing Models	<input type="checkbox"/> I can use models to represent the natural world. 6.3(B)				

Law of Conservation of Energy

Process: Tools to Know		Notes	Check Up		
Planning/ Performing Investigations	<input type="checkbox"/> I can plan, design, and implement an investigation. 6.2(A), 6.2(B)				
Using Scientific Tools	<input type="checkbox"/> I can collect, record, and analyze information using scientific tools. 6.4(A)				

Content		Notes	Check Up		
Energy Transfer	<input type="checkbox"/> I can describe methods of thermal energy transfer. 6.9(A) <input type="checkbox"/> conduction <input type="checkbox"/> convection <input type="checkbox"/> radiation				
	<input type="checkbox"/> I can describe how thermal energy moves in a predictable pattern from warmer to cooler until all the substances reach the same temperature. 6.9(B)				
Energy Transformation	<input type="checkbox"/> I can demonstrate and describe examples of energy transformations. 6.9(C)				

Process: Ways to Show		Notes	Check Up		
Interpreting Information	<input type="checkbox"/> I can analyze and formulate explanations, communicate conclusions, and predict trends. 6.2(E)				
Constructing Models	<input type="checkbox"/> I can use models to represent the natural world. 6.3(B)				

Structure of Earth

Process: Tools to Know		Notes	Check Up		
Planning/ Performing Investigations	<input type="checkbox"/> I can plan, design, and implement an investigation. 6.2(A), 6.2(B)				
Using Scientific Tools	<input type="checkbox"/> I can collect, record, and analyze information using scientific tools. 6.4(A)				

Content		Notes	Check Up		
Classifying Rocks	<input type="checkbox"/> I can classify rocks by how they form. 6.10(B) <input type="checkbox"/> metamorphic <input type="checkbox"/> igneous <input type="checkbox"/> sedimentary				
Layers of Earth	<input type="checkbox"/> I can build and interpret models that illustrate the compositional and mechanical layers of Earth. 6.10(A) <input type="checkbox"/> inner core <input type="checkbox"/> outer core <input type="checkbox"/> mantle <input type="checkbox"/> crust <input type="checkbox"/> asthenosphere <input type="checkbox"/> lithosphere				
Tectonic Plates	<input type="checkbox"/> I can identify the major tectonic plates. 6.10(C) <input type="checkbox"/> Eurasian <input type="checkbox"/> African <input type="checkbox"/> Indo-Australian <input type="checkbox"/> Pacific <input type="checkbox"/> North American <input type="checkbox"/> South American				
	<input type="checkbox"/> I can describe how plate tectonics causes major geological events. 6.10(D) <input type="checkbox"/> ocean basin formation <input type="checkbox"/> earthquakes <input type="checkbox"/> volcanic eruptions <input type="checkbox"/> mountain building				

Process: Ways to Show		Notes	Check Up		
Interpreting Information	<input type="checkbox"/> I can analyze and formulate explanations, communicate conclusions, and predict trends. 6.2(E)				
Constructing Models	<input type="checkbox"/> I can use models to represent the natural world. 6.3(B)				

Organization of Solar System

Process: Tools to Know		Notes	Check Up		
Planning/ Performing Investigations	<input type="checkbox"/> I can plan, design, and implement an investigation. 6.2(A), 6.2(B)				
Using Scientific Tools	<input type="checkbox"/> I can collect, record, and analyze information using scientific tools. 6.4(A)				

Content		Notes	Check Up		
The Solar System	<input type="checkbox"/> I can describe the physical properties, locations, and movements of the: 6.11(A) <input type="checkbox"/> Sun <input type="checkbox"/> planets <input type="checkbox"/> moons <input type="checkbox"/> meteors <input type="checkbox"/> asteroids <input type="checkbox"/> comets				
	<input type="checkbox"/> I can describe gravity as the force that governs the motion of our solar system. 6.11(B)				
Space Exploration	<input type="checkbox"/> I can describe examples of the history of space exploration. 6.11(C) <input type="checkbox"/> types of equipment <input type="checkbox"/> transportation needed				
	<input type="checkbox"/> I can describe examples of the future of space exploration. 6.11(C) <input type="checkbox"/> types of equipment <input type="checkbox"/> transportation needed				

Process: Ways to Show		Notes	Check Up		
Interpreting Information	<input type="checkbox"/> I can analyze and formulate explanations, communicate conclusions, and predict trends. 6.2(E)				
Constructing Models	<input type="checkbox"/> I can use models to represent the natural world. 6.3(B)				
Connecting Research	<input type="checkbox"/> I can relate the impact of research on scientific thought and society. 6.3(D)				

Classifications of Organisms

Process: Tools to Know		Notes	Check Up		
Planning/ Performing Investigations	<input type="checkbox"/> I can plan, design, and implement an investigation. 6.2(A), 6.2(B)				
Using Scientific Tools	<input type="checkbox"/> I can collect, record, and analyze information using scientific tools. 6.4(A)				

Content		Notes	Check Up		
Characteristics and Classification of Organisms	<input type="checkbox"/> I can describe the basic characteristics of organisms that further classify them in the currently recognized kingdoms. 6.12(D) <ul style="list-style-type: none"> <input type="checkbox"/> prokaryotic or eukaryotic <input type="checkbox"/> unicellular or multicellular <input type="checkbox"/> autotrophic or heterotrophic <input type="checkbox"/> mode of reproduction 				
	<input type="checkbox"/> I can describe all organisms as composed of one or more cells. 6.12(A)				
	<input type="checkbox"/> I can tell the difference between a prokaryotic and eukaryotic cell based on the presence of a nucleus. 6.12(B)				
	<input type="checkbox"/> I can list the three, currently recognized domains as the broadest taxonomic classification of living organisms. 6.12(C) <ul style="list-style-type: none"> <input type="checkbox"/> Archaea <input type="checkbox"/> Bacteria <input type="checkbox"/> Eukarya 				
Interdependence	<input type="checkbox"/> I can describe biotic and abiotic parts of an ecosystem in which organisms interact. 6.12(E)				
	<input type="checkbox"/> I can diagram the levels of organization within an ecosystem. 6.12(F) <ul style="list-style-type: none"> <input type="checkbox"/> organism <input type="checkbox"/> population <input type="checkbox"/> community <input type="checkbox"/> ecosystem 				

Process: Ways to Show		Notes	Check Up		
Interpreting Information	<input type="checkbox"/> I can analyze and formulate explanations, communicate conclusions, and predict trends. 6.2(E)				
Constructing Models	<input type="checkbox"/> I can use models to represent the natural world. 6.3(B)				