

# Science

# Grade 8

## PA Alternate Eligible Content

## PA Reporting Category: The Nature of Science

### ASSESSMENT ANCHOR:

#### S8.A.1 Reasoning and Analysis

ANCHOR DESCRIPTOR	ELIGIBLE CONTENT	Alternate Eligible Content Code	ALTERNATE ELIGIBLE CONTENT
<p>S8.A.1.1 Explain, interpret and apply scientific, environmental, or technological knowledge presented in a variety of formats (e.g., visuals, scenarios, graphs).</p> <p><b>Reference: 3.2.7.A, 3.2.7.B</b></p>	<p>S8.A.1.1.1 Distinguish between a scientific theory and an opinion, explaining how a theory is supported with evidence, or how new data/ information may change existing theories and practice.</p>		
	<p>S8.A.1.1.2 Explain how certain questions can be answered through scientific inquiry and/or technological design.</p>		
	<p>S8.A.1.1.3 Use evidence, such as observations or experimental results, to support inferences about a relationship.</p>		
	<p>S8.A.1.1.4 Develop descriptions, explanations, predictions, and models using evidence.</p>		
<p>S8.A.1.2 Identify and explain the impacts of applying scientific, environmental, or technological knowledge to address solution to practical problems.</p> <p><b>Reference: 3.2.7.C, 3.8.7.A, 3.8.7.B, 4.3.7.A</b></p>	<p>S8.A.1.2.1 Describe the positive and negative, intended and unintended, effects of specific scientific results or technological developments.(e.g., air/space travel, genetic engineering, nuclear fission/fusion, artificial intelligence, lasers, organ transplants).</p>		
	<p>S8.A.1.2.2 Identify environmental issues and explain their potential long-term health effects (e.g., pollution, pest controls, vaccinations).</p>		
	<p>S8.A.1.2.3 Describe fundamental scientific or technological concepts that could solve practical problems (e.g., Newton's Laws of motion, Mendelian genetics).</p>		
	<p>S8.A.1.2.4 Explain society's standard of living in terms of technological advancements and how these advancements impact on agriculture. (e.g., transportation, processing, production, storage).</p>		

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#### S8.A.1 Reasoning and Analysis

ANCHOR DESCRIPTOR	ELIGIBLE CONTENT	Alternate Eligible Content Code	ALTERNATE ELIGIBLE CONTENT
<p>S8.A.1.3 Identify evidence that certain variables may have caused measurable changes in natural or human-made systems.</p> <p><b>Reference: 3.1.7.E, 4.7.7.C, 4.8.7.C</b></p>	<p>S8.A.1.3.1 Use ratio to describe change (e.g., percent, parts per million, grams per cubic centimeter, mechanical advantage).</p>		
	<p>S8.A.1.3.2 Use evidence, observations, or explanations to make inferences about change in systems over time (e.g., carrying capacity, succession, population dynamics, loss of mass in chemical reactions, indicator fossils in geologic time scale) and the variables affecting these changes.</p>	<p><b>S8A1.3.2a</b></p>	<p><b>Identify the results of a specific change to a stable system (e.g., food webs, biological systems, electrical systems).</b></p>
	<p>S8.A.1.3.3 Examine systems changing over time, identifying the possible variables causing this change, and drawing inferences about how these variables affect this change.</p>		
	<p>S8.A.1.3.4 Given a scenario, explain how a dynamically changing environment provides for the sustainability of living systems.</p>		

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### ASSESSMENT ANCHOR:

#### S8.A.2 Processes, Procedures and Tools of Scientific Investigations

ANCHOR DESCRIPTOR	ELIGIBLE CONTENT	Alternate Eligible Content Code	ALTERNATE ELIGIBLE CONTENT
S8.A.2.1 Apply knowledge of scientific investigation or technological design in different contexts to make inferences to solve problems.  <b>Reference: 3.2.7.B, 3.2.7.D, 3.1.7.C, 3.1.7.D</b>	S8.A.2.1.1 Use evidence, observations, or a variety of scales (e.g., mass, distance, volume, temperature) to describe relationships.	<b>S8A2.1.1a</b>	<b>Use observations (limited to duration, weight, volume, distance, or temperature) to identify relationships (e.g., bigger/smaller, faster/slower, higher/lower).</b>
	S8.A.2.1.2 Use space/time relationships, define concepts operationally, raise testable questions, or formulate hypotheses.		
	S8.A.2.1.3 Design a controlled experiment by specifying how the independent variables will be manipulated, how the dependent variable will be measured, and which variables will be held constant.		
	S8.A.2.1.4 Interpret data/observations; develop relationships among variables based on data/observations to design models as solutions.		
	S8.A.2.1.5 Use evidence from investigations to clearly communicate and support conclusions.		
	S8.A.2.1.6 Identify a design flaw in a simple technological system and devise possible working solutions.		
S8.A.2.2 Apply appropriate instruments for a specific purpose and describe the information the instrument can provide.  <b>Reference: 3.3.7.A, 3.7.7.B, 3.1.7.D</b>	S8.A.2.2.1 Describe the appropriate use of instruments and scales to accurately and safely measure time, mass, distance, volume, or temperature safely under a variety of conditions.	<b>S8A2.2.1a</b>	<b>Identify the appropriate instrument and unit of measure to accurately record time, weight, distance, volume, or temperature.</b>
	S8.A.2.2.2 Apply appropriate measurement systems (e.g., time, mass, distance, volume, temperature) to record and interpret observations under varying conditions.		
	S8.A.2.2.3 Describe ways technology (e.g., microscope, telescope, micrometer, hydraulics, and barometer) extends and enhances human abilities for specific purposes	<b>S8A2.2.3a</b>	<b>Identify ways a specific technology enhances human abilities or senses (e.g., computer, microwave).</b>

## PA Reporting Category: The Nature of Science

### ASSESSMENT ANCHOR:

#### S8.A.3 Systems, Models and Patterns

ANCHOR DESCRIPTOR	ELIGIBLE CONTENT	Alternate Eligible Content Code	ALTERNATE ELIGIBLE CONTENT
<p>S8.A.3.1 Explain the parts of a simple system, their roles, and their relationships to the system as a whole.</p> <p><b>Reference: 3.1.7.A, 3.4.7.B, 4.3.7.C, 4.2.7.D, 4.6.7.A</b></p>	<p>S8.A.3.1.1 Describe a system (e.g., watershed, circulatory system, heating system, agricultural system) as a group of related parts with specific roles that work together to achieve an observed result.</p>		
	<p>S8.A.3.1.2 Explain the concept of order in a system [e.g., (first to last– manufacturing steps; trophic levels); (simple to complex– cell, tissue, organ, organ system)].</p>		
	<p>S8.A.3.1.3 Distinguish among system inputs, system processes, system outputs, and feedback (e.g., physical, ecological, biological, informational).</p>		
	<p>S8.A.3.1.4 Distinguish between open loop (e.g., energy flow, food web) and closed loop (e.g., materials in the nitrogen and carbon cycles, closed-switch) systems.</p>		
	<p>S8.A.3.1.5 Explain how components of a natural and human-made system play different roles in a working system.</p>		<p><b>S8A3.1.5a</b></p> <p><b>Identify the components of a simple human-made system based on function (e.g., electrical system, transportation system).</b></p>
			<p><b>S8A3.1.5b</b></p> <p><b>Identify how the components or processes of natural systems affect one another (e.g., water cycle, weather systems, organ systems).</b></p>

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### ASSESSMENT ANCHOR:

#### S8.A.3 Systems, Models and Patterns

ANCHOR DESCRIPTOR	ELIGIBLE CONTENT	Alternate Eligible Content Code	ALTERNATE ELIGIBLE CONTENT
<p>S8.A.3.2 Apply knowledge of models to make predictions, draw inferences, or explain technological concepts.</p> <p><b>Reference: 3.1.7.B, 3.2.7.B, 4.1.7.B</b></p>	<p>S8.A.3.2.1 Describe how scientists use models to explore relationships in natural systems (e.g., an ecosystem, river system, the solar system).</p>		
	<p>S8.A.3.2.2 Describe how engineers use models to develop new and improved technologies to solve problems.</p>		
	<p>S8.A.3.2.3 Given a model showing simple cause and effect relationships in a natural system, predict results that can be used to test the assumptions in the model. (e.g., photosynthesis, water cycle, diffusion, infiltration).</p>		
<p>S8.A.3.3 Describe repeated processes or recurring elements in natural, scientific and technological patterns.</p> <p><b>Reference: 3.1.7.C, 3.2.7.B</b></p>	<p>S8.A.3.3.1 Identify and describe patterns as repeated processes or recurring elements in human-made systems (e.g., trusses, hub and spoke system in communications and transportation systems, feedback controls in regulated systems).</p>		
	<p>S8.A.3.3.2 Describe repeating structure patterns in nature (e.g., veins in a leaf, tree rings, crystals, water waves) or periodic patterns (e.g., daily, monthly, annually).</p>	<p><b>S8A3.3.2a</b></p>	<p><b>Sequence recurring patterns, cycles or trends found in nature (e.g., water cycle, lunar phases, organ systems).</b></p>

## PA Reporting Category: Biological Sciences

### ASSESSMENT ANCHOR:

#### S8.B.1 Structure and Function of Organisms

ANCHOR DESCRIPTOR	ELIGIBLE CONTENT	Alternate Eligible Content Code	ALTERNATE ELIGIBLE CONTENT
<p>S8.B.1.1 Describe and compare structural and functional similarities and differences that characterize diverse living things.</p> <p><b>Reference: 3.3.7.A, 3.3.7.B, 4.6.7.A, 4.7.7.B</b></p>	<p>S8.B.1.1.1 Describe the structures of living things that help them function effectively in specific ways (e.g., adaptations and characteristics).</p>		
	<p>S8.B.1.1.2 Compare similarities and differences in both internal structures of organisms (e.g., invertebrate/vertebrate, vascular/nonvascular, single-celled/multi-celled) and external structures (e.g., appendages, body segments, type of covering, size, shape).</p>		
	<p>S8.B.1.1.3 Apply knowledge of characteristic structures to identify or categorize organisms (i.e., plants, animals, fungi, bacteria, and protista).</p>	<p><b>S8B1.1.3a</b></p>	<p><b>Categorize plants or animals based on characteristic structures (e.g., seeds, leaves, fruits or mammals, invertebrates, birds).</b></p>
	<p>S8.B.1.1.4 Identify the levels of organization from cell to organism and describe how specific structures (parts), which underlie larger systems, enable the system to function as a whole.</p>		

## PA Reporting Category: Biological Sciences

**ASSESSMENT ANCHOR:  
S8.B.2 Continuity of Life**

ANCHOR DESCRIPTOR	ELIGIBLE CONTENT	Alternate Eligible Content Code	ALTERNATE ELIGIBLE CONTENT
S8.B.2.1 Explain the basic concepts of natural selection.  <b>Reference: 3.3.7.D, 4.7.7.A, 4.7.7.B</b>	S8.B.2.1.1 Explain how inherited structures or behaviors help organisms survive and reproduce in different environments.	<b>S8B2.1.1a</b>	<b>Identify structures or behaviors that enable plants or animals to survive in their environment (e.g., size of plant, leaf shape or appendages, coverings, nocturnal behavior).</b>
	S8.B.2.1.2 Explain how different adaptations in individuals of the same species may affect survivability or reproduction success.		
	S8.B.2.1.3 Explain that mutations can alter a gene and are the original source of new variations.		
	S8.B.2.1.4 Describe how selective breeding or biotechnology can change the genetic makeup of organisms.		
	S8.B.2.1.5 Explain that adaptations are developed over long periods of time and are passed from one generation to another.		
S8.B.2.2 Explain how a set of genetic instructions determines inherited traits of organisms.  <b>Reference: 3.3.7.C</b>	S8.B.2.2.1 Identify and explain differences between inherited and acquired traits.		
	S8.B.2.2.2 Recognize that the gene is the basic unit of inheritance, that there are dominant and recessive genes, that traits are inherited.		



## PA Reporting Category: Biological Sciences

### ASSESSMENT ANCHOR:

#### S8.B.3 Ecological Behavior and Systems

ANCHOR DESCRIPTOR	ELIGIBLE CONTENT	Alternate Eligible Content Code	ALTERNATE ELIGIBLE CONTENT
S8.B.3.1 Explain the relationships among and between organisms in different ecosystems and their abiotic and biotic components.  <b>Reference: 4.4.7.B, 4.6.7.A, 4.1.7.C, 4.1.7.D</b>	S8.B.3.1.1 Explain the flow of energy through an ecosystem (e.g., food chains, food webs).	<b>S8B3.1.1a</b>	<b>Sequence the flow of energy through a food chain or a food web.</b>
	S8.B.3.1.2 Identify major biomes and describe abiotic and biotic components (e.g., abiotic: different soil types, air, water sunlight; biotic: soil microbes, decomposers).	<b>S8B3.1.2a</b>	<b>Recognize the association between different environments and their characteristics (e.g., climate, precipitation, vegetation).</b>
	S8.B.3.1.3 Explain relationships among organisms (e.g., producers/consumers, predator/prey), in an ecosystem.	<b>S8B3.1.3a</b>	<b>Identify the role of different organisms in an ecosystem (limited to producers, consumers, predator, and prey).</b>
S8.B.3.2 Identify evidence of change to infer and explain the ways different variables may affect change in natural or human- made systems.  <b>Reference: 3.1.7.C, 4.3.7.B, 4.6.7.C, 4.8.7.D, 3.1.7.E, 4.3.7.C</b>	S8.B.3.2.1 Use evidence to explain factors that affect changes in populations (e.g., deforestation, disease, land use, natural disaster, invasive species).	<b>S8B3.2.1a</b>	<b>Recognize the impact that humans have on habitats and the animals or plants living there (e.g., deforestation and deer habitats).</b>
	S8.B.3.2.2 Use evidence to explain how diversity affects the ecological integrity of natural systems.		
	S8.B.3.2.3 Describe the response of organisms to environmental changes (e.g., changes in climate, hibernation, migration, coloration) and how those changes affect survival.		

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### ASSESSMENT ANCHOR:

### S8.B.3 Ecological Behavior and Systems

ANCHOR DESCRIPTOR	ELIGIBLE CONTENT	Alternate Eligible Content Code	ALTERNATE ELIGIBLE CONTENT
<p>S8.B.3.3 Explain how renewable and non-renewable resources provide for human needs or how these needs impact the environment.</p> <p><b>Reference: 3.6.7.A, 4.4.7.A, 4.4.7.C, 4.5.7.C, 3.8.7.C</b></p>	S8.B.3.3.1 Explain how human activities may affect local, regional, and global environments.		
	S8.B.3.3.2 Explain how renewable and nonrenewable resources provide for human needs (i.e., energy, food, water, clothing, and shelter).		
	S8.B.3.3.3 Describe how waste management affects the environment (e.g., recycling, composting, landfills, incineration, sewage treatment).	<b>S8B3.3.3a</b>	<b>Identify ways to reduce pollution through waste management (e.g., recycling, composting).</b>
	S8.B.3.3.4 Explain the long-term effects of using integrated pest management (e.g., herbicides, natural predators, biogenetics) on the environment.		
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## PA Reporting Category: Physical Sciences

### ASSESSMENT ANCHOR:

#### S8.C.1 Structure, Properties, and Interactions of Matter and Energy

ANCHOR DESCRIPTOR	ELIGIBLE CONTENT	Alternate Eligible Content Code	ALTERNATE ELIGIBLE CONTENT
<p><b>S8.C.1.1</b> Explain concepts about the structure and properties (physical and chemical) of matter.</p> <p><i>Reference: 3.4.7.A</i></p>	<p><b>S8.C.1.1.1</b> Explain the differences among elements, compounds, and mixtures.</p>		
	<p><b>S8.C.1.1.2</b> Use characteristic physical or chemical properties to distinguish one substance from another (e.g., density, thermal expansion/contraction, freezing/melting points, streak test).</p>	<p><b>S8C1.1.2a</b></p>	<p><b>Use physical observations or measurements to compare density or phase changes of substances (limited to sinking/floating or freezing, melting or boiling points).</b></p>
	<p><b>S8.C.1.1.3</b> Identify and describe reactants and products of simple chemical reactions.</p>		

## PA Reporting Category: Physical Sciences

### ASSESSMENT ANCHOR:

#### S8.C.2 Forms, Sources, Conversion, and Transfer of Energy

ANCHOR DESCRIPTOR	ELIGIBLE CONTENT	Alternate Eligible Content Code	ALTERNATE ELIGIBLE CONTENT
S8.C.2.1 Describe energy sources, transfer of energy, or conversion of energy.  <b>Reference: 3.4.7.B, 4.2.7.B</b>	S8.C.2.1.1 Distinguish among forms of energy (e.g., electrical, mechanical, chemical, light, sound, nuclear) and sources of energy (i.e., renewable and nonrenewable energy).		
	S8.C.2.1.2 Explain how energy is transferred from one place to another through convection, conduction, or radiation.		
	S8.C.2.1.3 Describe how one form of energy (e.g., electrical, mechanical, chemical, light, sound, nuclear) can be converted into a different form of energy.		
S8.C.2.2 Compare the environmental impact of different energy sources chosen to support human endeavors.  <b>Reference: 3.4.7.B, 4.2.7.B</b>	S8.C.2.2.1 Describe the Sun as a major source of energy that impacts the environment.		
	S8.C.2.2.2 Compare the time span of renewability for fossil fuels and alternative fuels.		
	S8.C.2.2.3 Describe the waste (i.e., kind and quantity) derived from the use of renewable and nonrenewable resources and their potential impact on the environment.	<b>S8C2.2.3a</b>	<b>Identify energy sources as either renewable (limited to wind, solar, and hydroelectric) or non-renewable (limited to coal, oil, and natural gas).</b>

## PA Reporting Category: Physical Sciences

### ASSESSMENT ANCHOR: S8.C.3 Principles of Motion and Force

ANCHOR DESCRIPTOR	ELIGIBLE CONTENT	Alternate Eligible Content Code	ALTERNATE ELIGIBLE CONTENT
S8.C.3.1 Describe the effect of multiple forces on the movement, speed, or direction of an object.  <b>Reference: 3.4.7.C, 3.6.7.C</b>	S8.C.3.1.1 Describe forces acting on objects (e.g., friction, gravity, balanced versus unbalanced).	<b>S8C3.1.1a</b>	<b>Compare the impact of one or more forces acting on an object (limited to friction, gravity, balanced, and unbalanced).</b>
	S8.C.3.1.2 Distinguish between kinetic and potential energy.		
	S8.C.3.1.3 Explain that the mechanical advantages helps to do work (physics) by either changing a force or changing the direction of the applied force. (e.g., simple machines, hydraulic systems)		

## PA Reporting Category: Earth and Space Sciences

### ASSESSMENT ANCHOR:

#### S8.D.1 Earth Features and Processes that Change Earth and Its Resources

ANCHOR DESCRIPTOR	ELIGIBLE CONTENT	Alternate Eligible Content Code	ALTERNATE ELIGIBLE CONTENT
<p>S8.D.1.1 Describe constructive and destructive natural processes that form different geologic structures and resources.</p> <p><b>Reference: 3.5.7.A, 4.4.7.B</b></p>	<p>S8.D.1.1.1 Explain the rock cycle as changes in the solid earth and rock types (igneous – granite, basalt, obsidian, pumice; sedimentary – limestone, sandstone, shale, coal; and metamorphic – slate, quartzite, marble, gneiss).</p>		
	<p>S8.D.1.1.2 Describe natural processes that change Earth’s surface (e.g., landslides, volcanic eruptions, earthquakes, mountain building, new land being formed, weathering, erosion, sedimentation, soil formation).</p>	<p><b>S8D1.1.2a</b></p>	<p><b>Identify natural processes that change the Earth’s surface (e.g., landslides, earthquakes, weathering).</b></p>
	<p>S8.D.1.1.3 Identify soil types. (i.e., humus, topsoil, subsoil, loam, loess, and parent material) and their characteristics (particle size, porosity, permeability) found in different biomes and in Pennsylvania, and explain how they formed.</p>		
	<p>S8.D.1.1.4 Explain how fossils provide evidence about plants and animals that once lived throughout Pennsylvania’s history (e.g., fossils provide evidence of different environments).</p>		
<p>S8.D.1.2 Describe the potential impact of human made processes on changes to Earth’s resources and how they affect everyday life.</p> <p><b>Reference: 3.5.7.B, 3.6.7.A, 4.2.7.C</b></p>	<p>S8.D.1.2.1 Describe a product’s transformation process from production to consumption (e.g., prospecting, propagating, growing, maintaining, adapting, treating, converting, distributing, disposing) and explain the process’s potential impact on Earth’s resources.</p>	<p><b>S8D1.2.1a</b></p>	<p><b>Identify products that are made from different renewable or non-renewable sources (e.g., lumber from trees, cans from metal, gasoline from oil).</b></p>
	<p>S8.D.1.2.2 Describe potential impacts of human-made processes (e.g., manufacturing, agriculture, transportation, mining) on Earth’s resources, both nonliving (i.e., air, water, or earth materials) and living (i.e., plants and animals).</p>		

## PA Reporting Category: Earth and Space Sciences

### ASSESSMENT ANCHOR:

#### S8.D.1 Earth Features and Processes that Change Earth and Its Resources

ANCHOR DESCRIPTOR	ELIGIBLE CONTENT	Alternate Eligible Content Code	ALTERNATE ELIGIBLE CONTENT
<p>S8.D.1.3 Describe characteristic features of Earth's water systems or their impact on resources.</p> <p><b>Reference: 3.5.7.D, 4.3.7.B, 4.1.7.A, 4.1.7.B, 4.1.7.C</b></p>	<p>S8.D.1.3.1 Describe the water cycle and the physical processes on which it depends (i.e., evaporation, condensation, precipitation, transpiration, runoff, infiltration, energy inputs, and phase changes).</p>	<p><b>S8D1.3.1a</b></p>	<p><b>Recognize processes in the water cycle (limited to evaporation, condensation, precipitation, transpiration, runoff, and infiltration).</b></p>
	<p>S8.D.1.3.2 Compare and contrast characteristics of freshwater and saltwater systems on the basis of their physical characteristics (i.e., composition, density and electrical conductivity) and their use as natural resources.</p>		
	<p>S8.D.1.3.3 Distinguish among different water systems (e.g., wetland systems, ocean systems, river systems, watersheds) and describe their relationships to each other as well as to landforms.</p>		
	<p>S8.D.1.3.4 Identify the physical characteristics of a stream and how these characteristics determine the types of organisms found within the stream environment (e.g., biological diversity, water quality, flow rate, tributaries, surrounding watershed).</p>		

## PA Reporting Category: Earth and Space Sciences

### ASSESSMENT ANCHOR:

#### S8.D.2 Weather, Climate, and Atmospheric Processes

ANCHOR DESCRIPTOR	ELIGIBLE CONTENT	Alternate Eligible Content Code	ALTERNATE ELIGIBLE CONTENT
S8.D.2.1 Explain how pressure, temperature, moisture, and wind are used to describe atmospheric conditions that affect regional weather or climate.  <b>Reference: 3.5.7.C</b>	S8.D.2.1.1 Explain the impact of water systems on the local weather or the climate of a region (e.g., lake effect snow, land/ocean breezes).		
	S8.D.2.1.2 Identify how global patterns of atmospheric movement influence regional weather and climate.		
	S8.D.2.1.3 Identify how cloud types, wind directions and barometric pressure changes are associated with weather patterns in different regions of the country.	<b>S8D2.1.3a</b>	<b>Identify how wind direction or cloud types (limited to cumulus, cirrus, stratus, nimbostratus, cumulonimbus) are associated with weather patterns.</b>



## PA Reporting Category: Earth and Space Sciences

### ASSESSMENT ANCHOR:

#### S8.D.3 Composition and Structure of the Universe

ANCHOR DESCRIPTOR	ELIGIBLE CONTENT	Alternate Eligible Content Code	ALTERNATE ELIGIBLE CONTENT
<p>S8.D.3.1 Explain the relationships between and among the objects of our solar system.</p> <p><b>Reference: 3.4.7.D</b></p>	<p>S8.D.3.1.1 Describe patterns of Earth's movements (i.e., rotation and revolution) in relation to the moon and sun (i.e., phases, eclipses, and tides).</p>		
	<p>S8.D.3.1.2 Describe the role of gravity as the force that governs the movement of the solar system and universe.</p>		
	<p>S8.D.3.1.3 Compare and contrast characteristics of celestial bodies found in the solar system (e.g., moons, asteroids, comets, meteors, inner and outer planets).</p>		