

Instructional Resources Cover 100% of Oregon Core Content Standards, Grade Levels 6-8

Thousands of resources are searchable by Oregon State Content Standards. Teachers can quickly identify and access the exact resources that address a specific standard in order to use them for instruction or assign them to students.

Sixth Grade	Discovery Education Supporting Content
6.1 Structure and Function: Living and non-living systems are organized groups of related parts that function together and have characteristics and properties.	
6.1P.1 Describe physical and chemical properties of matter and how they can be measured.	Physical Science > Matter > Properties of Matter > Mass
	Physical Science > Matter > Properties of Matter > Volume
	Physical Science > Matter > Properties of Matter > Density
6.1P.2 Compare and contrast the characteristic properties of forms of energy.	Physical Science > Energy and Work > Potential and Kinetic Energy > Potential Energy
	Physical Science > Energy and Work > Potential and Kinetic Energy > Kinetic Energy
	Home > Physical Science > Energy Sources > Introduction > Energy Storage and Transport
6.1L.1 Compare and contrast the types and components of cells. Describe the functions and relative complexity of cells, tissues, organs, and organ systems.	Life Science > Cells > Cell Types > Cell Theory
	Life Science > Cells > Cell Types > Prokaryotic Cells
	Life Science > Cells > Cell Types > Eukaryotic Cells and Cell Differentiation
6.1E.1 Describe and compare the properties and composition of the layers of Earth.	Earth and Space Science > Earth's Changing Interior > Structure of the Earth > Structure Based on Composition
	Earth and Space Science > Earth's Changing Interior > Structure of the Earth > Physical Characteristics
	Earth and Space Science > Earth's Changing Interior > Structure of the Earth > Studying Earth's Interior
6.1E.2 Describe the properties of objects in the solar system. Describe and compare the position of the sun within the solar system, galaxy, and universe.	Earth and Space Science > Our Solar System > Characteristics of the Sun-Earth-Moon System > Sun
	Earth and Space Science > Our Solar System > Characteristics of the Sun-Earth-Moon System > Earth
	Earth and Space Science > Our Solar System > Parts of Our Solar System > Formation of Our Solar System
6.2 Interaction and Change: The related parts within a system interact and change.	
	Physical Science > Energy and Work > Waves > Characteristics / Properties of Waves

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	Physical Science > Energy and Work > Waves > Types of Waves
	Physical Science > Sound > Nature of Sound > Waves
6.2P.2 Describe the relationships between: electricity and magnetism, static and current electricity, and series and parallel electrical circuits.	Physical Science > Electricity and Magnetism > Electricity and Magnetism > How Electricity and Magnetism are Related
	Physical Science > Electricity and Magnetism > Static Electricity
	Physical Science > Electricity and Magnetism > Current Electricity > Circuits and Switches
6.2L.1 Describe the relationships and interactions between and among cells, tissues, organs, and organ systems.	Life Science > Human Systems > System 1
	Life Science > Human Systems > System 2
	Life Science > Cells > Cell Types > Cell Theory
6.2L.2 Explain how individual organisms and populations in an ecosystem interact and how changes in populations are related to resources.	Life Science > Ecosystems and Environment > Populations and Communities > Relationships Among Organisms
	Life Science > Ecosystems and Environment > Populations and Communities > Populations
	Life Science > Ecosystems and Environment > Populations and Communities > Trophic Relationships
6.2E.1 Explain the water cycle and the relationship to landforms and weather.	Earth and Space Science > Weather and Climate > Weather > Energy Transfer and the Water Cycle
	Earth and Space Science > Earth's Changing Surface > Change Over Time > Erosion by Water
	Earth and Space Science > Earth's Changing Surface > Change Over Time > Mechanical Weathering
6.3 Scientific Inquiry: Scientific inquiry is the investigation of the natural world based on observation and science principles that includes proposing questions or hypotheses, and developing procedures for questioning, collecting, analyzing, and interpreting accurate and relevant data to produce justifiable evidence-based explanations.	
6.3S.1 Based on observation and science principles propose questions or hypotheses that can be examined through scientific investigation. Design and conduct an investigation that uses appropriate tools and techniques to collect relevant data.	Physical Science > Matter > Properties of Matter > Mass > Virtual Lab
	Life Science > Cells > Cell Processes > Cellular Respiration > Virtual Lab
	Earth and Space Science > Our Solar System > Characteristics of the Sun-Earth-Moon System > Moon > Virtual Lab
6.3S.2 Organize and display relevant data, construct an evidence-based explanation of the results of an investigation, and communicate the conclusions.	Physical Science > Matter > Properties of Matter > Mass > Virtual Lab
	Life Science > Cells > Cell Processes > Cellular Respiration > Virtual Lab
	Earth and Space Science > Our Solar System > Characteristics of the Sun-Earth-Moon System > Moon > Virtual Lab
6.3S.3 Explain why if more than one variable changes at the same time in an investigation, the outcome of the investigation may not be clearly attributable to any one variable.	Physical Science > Matter > Properties of Matter > Mass > Virtual Lab
	Life Science > Cells > Cell Processes > Cellular Respiration > Virtual Lab
	Earth and Space Science > Our Solar System > Characteristics of the Sun-Earth-Moon System > Moon > Virtual Lab

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6.4 Engineering Design: Engineering design is a process of identifying needs, defining problems, developing solutions, and evaluating proposed solutions.	
6.4D.1 Define a problem that addresses a need and identify science principles that may be related to possible solutions.	Teacher Center > Virtual Labs > "Let There Be Light" Virtual Lab Teacher Center > Virtual Labs > "Population Puzzle" Virtual Lab Teacher Center > Virtual Labs > "Speedy Lube" Virtual Lab
6.4D.2 Design, construct, and test a possible solution to a defined problem using appropriate tools and materials. Evaluate proposed engineering design solutions to the defined problem.	Teacher Center > Virtual Labs > "Let There Be Light" Virtual Lab Teacher Center > Virtual Labs > "Population Puzzle" Virtual Lab Teacher Center > Virtual Labs > "Speedy Lube" Virtual Lab
6.4D.3 Describe examples of how engineers have created inventions that address human needs and aspirations.	Teacher Center > Featured Series Library > "When We Left Earth" Video Series: DragonflyTV: Kites and Wind Tunnel: Engineering Design Teacher Center > Process Skills Library > Mythbusters > "Bouyancy: Ping Pong Salvage"

Seventh Grade	Discovery Education Supporting Content
7.1 Structure and Function: Living and non-living systems are composed of components which affect the characteristics and properties of the system.	
7.1P.1 Explain that all matter is made of atoms, elements are composed of a single kind of atom, and compounds are composed of two or more elements.	Physical Science > Chemical Changes > Atoms and Elements > Molecules Physical Science > Chemical Changes > Chemical Reactions > Compounds Physical Science > Chemical Changes > Atoms and Elements > Atomic Structure and Elements
7.1L.1 Compare and contrast sexual and asexual reproduction. Explain why reproduction is essential to the continuation of every species.	Life Science > Genetics > Reproduction > Asexual Life Science > Genetics > Reproduction > Sexual Life Science > Genetics > Reproduction
7.1L.2 Distinguish between inherited and learned traits, explain how inherited traits are passed from generation to generation, and describe the relationships among phenotype, genotype, chromosomes, and genes.	Life Science > Genetics > Genetic Traits > Mendel and Heredity Life Science > Genetics > Genetic Traits > Genes Life Science > Genetics > Genetic Traits > DNA
7.2 Interaction and Change: The components and processes within a system interact.	
7.2P.1 Identify and describe types of motion and forces and relate forces qualitatively to the laws of motion and gravitation.	Physical Science > Force and Motion > Motion > Direction of Motion Physical Science > Force and Motion > Forces > Net Force Physical Science > Force and Motion > Forces > Newton's Laws
7.2L.1 Explain how organelles within a cell perform cellular processes and how cells obtain the raw materials for those processes.	Life Science > Cells > Cell Types > Cell Theory Life Science > Cells > Cell Processes > Cell Cycle and Mitosis Life Science > Cells > Cell Processes > Cellular Respiration
7.2L.2 Explain the processes by which plants and animals obtain energy and materials for	Life Science > Cells > Cell Processes > Photosynthesis Life Science > Cells > Cell Processes > Cellular Respiration

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	Life Science > Organisms > Diversity of Life > Characteristics of Living Things
7.2E.1 Describe and evaluate the environmental and societal effects of obtaining, using, and managing waste of renewable and non-renewable resources.	Physical Science > Energy Sources > Fossil Fuel > Issues of Fossil Fuels
	Physical Science > Energy Sources > Renewable Energy > Solar and Wind Energy
	Physical Science > Energy Sources > Renewable Energy > Hydroelectric and Geothermal Energy
7.2E.2 Describe the composition of Earth's atmosphere, how it has changed over time, and implications for the future.	Earth and Space Science > Weather and Climate > Climate Change > Short Term Changes
	Earth and Space Science > Weather and Climate > Climate Change > Long Term Changes
	Earth and Space Science > Weather and Climate > Climate Change > Anthropogenic Changes
7.2E.3 Evaluate natural processes and human activities that affect global environmental change and suggest and evaluate possible solutions to problems.	Earth and Space Science > Weather and Climate > Climate > Climate and the Factors that Affect It
	Earth and Space Science > Weather and Climate > Climate Change > Anthropogenic Changes
	Teacher Center > Featured Series Library > Planet Earth > "Pole to Pole"
7.2E.4 Explain how landforms change over time at various rates in terms of constructive and destructive forces.	Earth and Space Science > Earth's Changing Surface > Change Over Time > Erosion by Gravity
	Earth and Space Science > Earth's Changing Surface > Change Over Time > Mechanical Weathering
	Earth and Space Science > Earth's Changing Surface > Change Over Time > Erosion by Water
7.3 Scientific Inquiry: Scientific inquiry is the investigation of the natural world based on observation and science principles that includes proposing questions or hypotheses, designing procedures for questioning, collecting, analyzing, and interpreting multiple forms of accurate and relevant data to produce justifiable evidence-based explanations.	
7.3S.1 Based on observations and science principles propose questions or hypotheses that can be examined through scientific investigation. Design and conduct a scientific investigation that uses appropriate tools and techniques to collect relevant data.	Physical Science > Energy Sources > Fossil Fuel > Issues of Fossil Fuels > Virtual Lab
	Life Science > Genetics > Genetic Traits > Mendel and Heredity > Virtual Lab
	Earth and Space Science > Weather and Climate > Climate Change > Anthropogenic Changes > Virtual Lab
7.3S.2 Organize, display, and analyze relevant data, construct an evidence-based explanation of the results of an investigation, and communicate the conclusions including possible sources of error.	Physical Science > Energy Sources > Fossil Fuel > Issues of Fossil Fuels > Virtual Lab
	Life Science > Genetics > Genetic Traits > Mendel and Heredity > Virtual Lab
	Earth and Space Science > Weather and Climate > Climate Change > Anthropogenic Changes > Virtual Lab
7.3S.3 Evaluate the validity of scientific explanations and conclusions based on the	Physical Science > Energy Sources > Fossil Fuel > Issues of Fossil Fuels > Virtual Lab
	Life Science > Genetics > Genetic Traits > Mendel and Heredity > Virtual Lab

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	Earth and Space Science > Weather and Climate > Climate Change > Anthropogenic Changes > Virtual Lab
7.4 Engineering Design: Engineering design is a process of identifying needs, defining problems, identifying constraints, developing solutions, and evaluating proposed solutions.	
7.4D.1 Define a problem that addresses a need and identify constraints that may be related to possible solutions.	Teacher Center > Virtual Labs > "Future Power" Virtual Lab Teacher Center > Virtual Labs > "Genes Make the Rabbit" Virtual Lab Teacher Center > Virtual Labs > "Do Re Meanders" Virtual Lab
7.4D.2 Design, construct, and test a possible solution using appropriate tools and materials. Evaluate the proposed solutions to identify how design constraints are addressed.	Teacher Center > Virtual Labs > "Future Power" Virtual Lab Teacher Center > Virtual Labs > "Genes Make the Rabbit" Virtual Lab Teacher Center > Virtual Labs > "Do Re Meanders" Virtual Lab
7.4D.3 Explain how new scientific knowledge can be used to develop new technologies and how new technologies can be used to generate new scientific knowledge.	Earth and Space Science > Universe > How We Study the Universe > Ancient Astronomy Physical Science > Force and Motion > Forces > Newton's Laws Home > Life Science > Genetics > Genetic Traits > Mendel and Heredity

Eighth Grade	Discovery Education Supporting Content
8.1 Structure and Function: Systems and their components function at various levels of complexity.	
8.1P.1 Describe the atomic model and explain how the types and arrangements of atoms determine the physical and chemical properties of elements and compounds.	Physical Science > Chemical Changes > Atoms and Elements > Atomic Structure and Elements Physical Science > Chemical Changes > Atoms and Elements > Periodic Table Physical Science > Chemical Changes > Chemical Reactions > Compounds
8.1P.2 Explain how the Periodic Table is an organization of elements based on their physical and chemical properties.	Physical Science > Chemical Changes > Atoms and Elements > Periodic Table Physical Science > Chemical Changes > Chemical Reactions > Acids and Bases Physical Science > Chemical Changes > Atoms and Elements > Atomic Structure and Elements
8.1P.3 Explain how the motion and spacing of particles determines states of matter.	Physical Science > Matter > Physical Changes in Matter > States of Matter Physical Science > Matter > Physical Changes in Matter > Changes in States Physical Science > Matter > Physical Changes in Matter > Combining and Separating
8.1L.1 Explain how genetics and anatomical characteristics are used to classify organisms and infer evolutionary relationships.	Life Science > Genetics > Genetic Traits > Mendel and Heredity Life Science > Genetics > Genetic Traits > Genes Life Science > Genetics > Genetic Traits > DNA
8.2 Interaction and Change: Systems interact with other systems.	
8.2P.1 Compare and contrast physical and	Physical Science > Matter > Properties of Matter

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	Physical Science > Matter > Physical Changes in Matter
	Physical Science > Chemical Changes > Chemical Reactions > Chemical Reactions
8.2P.2 Explain how energy is transferred, transformed, and conserved.	Physical Science > Energy Sources > Introduction > Energy Storage and Transport
	Physical Science > Energy and Work > Energy and Work > Transfer and Conservation of Energy
	Physical Science > Energy and Work > Energy and Work > Transformation of Energy
8.2L.1 Explain how species change through the process of natural selection. Describe evidence for evolution.	Life Science > Organisms > Evolution > Darwin and Natural Selection
	Life Science > Organisms > Evolution > Adaptations
	Life Science > Organisms > Evolution > Change Over Time and the Fossil Record
8.2E.1 Explain how gravity is the force that keeps objects in the solar system in regular and predictable motion and describe the resulting phenomena. Explain the interactions that result in Earth's seasons.	Physical Science > Force and Motion > Forces > Gravity
	Earth and Space Science > Our Solar System > Interactions in the Sun-Earth-Moon System > Phases
	Earth and Space Science > Our Solar System > Interactions in the Sun-Earth-Moon System > Rotation, Orbits, and the Seasons
8.2E.2 Describe the processes of Earth's geosphere and the resulting major geological events.	Earth and Space Science > Earth's Changing Surface > Rocks and Minerals > Fossils and Studying Earth's Past
	Earth and Space Science > Earth's Changing Surface > Rocks and Minerals > Rock Cycle
	Earth and Space Science > Earth's Changing Interior > Structure of the Earth > Structure Based on Composition
8.2E.3 Explain the causes of patterns of atmospheric and oceanic movement and the effects on weather and climate.	Earth and Space Science > Weather and Climate > Climate > Climate and the Factors that Affect It
	Earth and Space Science > Weather and Climate > Climate > Climate Regions
	Earth and Space Science > Weather and Climate > Weather > Energy Transfer and the Water Cycle
8.2E.4 Analyze evidence for geologic, climatic, environmental, and life form changes over time.	Earth and Space Science > Earth's Changing Surface > Rocks and Minerals > Fossils and Studying Earth's Past
	Life Science > Organisms > Evolution > Change Over Time and the Fossil Record
8.3 Scientific Inquiry: Scientific inquiry is the investigation of the natural world based on observations and science principles that includes proposing questions or hypotheses and designing procedures for questioning, collecting, analyzing, and interpreting multiple forms of accurate and relevant data to produce justifiable evidence-based explanations and new explorations.	
8.3S.1 Based on observations and science principles propose questions or hypotheses that	Physical Science > Energy Sources > Introduction > Energy Storage and Transport > Virtual Lab

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	Life Science > Organisms > Evolution > Adaptations > Integrated Science Simulation
	Earth and Space Science > Earth's Changing Interior > Structure of the Earth > Structure Based on Composition > Exploration
8.3S.2 Organize, display, and analyze relevant data, construct an evidence-based explanation of the results of a scientific investigation, and communicate the conclusions including possible sources of error. Suggest new investigations based on analysis of results.	Physical Science > Energy Sources > Introduction > Energy Storage and Transport > Virtual Lab
	Life Science > Organisms > Evolution > Adaptations > Integrated Science Simulation
	Earth and Space Science > Earth's Changing Interior > Structure of the Earth > Structure Based on Composition > Exploration
8.3S.3 Explain how scientific explanations and theories evolve as new information becomes available.	Physical Science > Energy Sources > Introduction > Energy Storage and Transport > Virtual Lab
	Life Science > Organisms > Evolution > Adaptations > Integrated Science Simulation
	Earth and Space Science > Earth's Changing Interior > Structure of the Earth > Structure Based on Composition > Exploration
8.4 Engineering Design: Engineering design is a process of identifying needs, defining problems, identifying design criteria and constraints, developing solutions, and evaluating proposed solutions.	
8.4D.1 Define a problem that addresses a need, and using relevant science principles investigate possible solutions given specified criteria, constraints, priorities, and trade-offs.	Teacher Center > Process Skills Library > "Lunar Mission to Mars" Virtual Lab
	Teacher Center > Process Skills Library > "Sound Advice " Virtual Lab
	Teacher Center > Process Skills Library > "Keep It Cool" Virtual Lab
8.4D.2 Design, construct, and test a proposed engineering design solution and collect relevant data. Evaluate a proposed design solution in terms of design and performance criteria, constraints, priorities, and trade-offs. Identify possible design improvements.	Teacher Center > Process Skills Library > "Lunar Mission to Mars" Virtual Lab
	Teacher Center > Process Skills Library > "Sound Advice " Virtual Lab
	Teacher Center > Process Skills Library > "Keep It Cool" Virtual Lab
8.4D.3 Explain how creating a new technology requires considering societal goals, costs, priorities, and trade-offs.	Teacher Center > Process Skills Library > "Too Hot to Handle" Virtual Lab
	Teacher Center > Process Skills Library > "Lunar Mission to Mars" Virtual Lab
	Teacher Center > Process Skills Library > "Knock the Pin to Win" Virtual Lab

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