

Middle School

Adaptive Curriculum is an award-winning online supplemental curriculum program that provides interactive, discovery-based, and high-quality visuals designed to enhance teaching and learning in Mathematics and Science for teachers and learners in the middle grades.

Strand	Concept	Activity Object	Type
Physical Science	Nature of Matter	<a href="#">Energy and Matter: A Sci-Fi Adventure</a>	Concept Development
		<a href="#">The Density of Marbles</a>	Experiment
		<a href="#">Physical Properties of Substances</a>	Concept Development
		<a href="#">The Thermal Expansion of Metals</a>	Experiment
		<a href="#">A Musical Introduction to Chemical Formulas</a>	Concept Development
		<a href="#">Atomic Model History: Early Ideas to Thomson</a>	Concept Development
		<a href="#">Atomic Model History: From Rutherford to Bohr</a>	Concept Development
<a href="#">Electron Energy Levels</a>		Concept Development	
<a href="#">Chemical Bonding: Covalent Compounds</a>		Concept Development	
<a href="#">Chemical Compounds: Ionic Bonding</a>		Concept Development	
<a href="#">Putting the Elements in the Periodic Table</a>	Concept Development		
<a href="#">Physical Properties and the Periodic Table</a>	Concept Development		
States of Matter	Properties of Solids, Liquids, and Gases	<a href="#">Melting and Boiling Point: Different Materials, Different Amounts</a>	Concept Development
		<a href="#">Melting and Boiling Point: Heating Curves</a>	Experiment
			Experiment
Changes of Matter	Conservation of Mass in Chemical Reactions	<a href="#">Physical and Chemical Changes</a>	Experiment
		<a href="#">Endothermic and Exothermic Reactions</a>	Concept Development
			Experiment
Energy	Renewable Energy Sources	<a href="#">Nuclear Energy: Fission</a>	Concept Development
		<a href="#">Rollercoaster Design: Potential and Kinetic Energy</a>	Concept Development
		<a href="#">Heat Conduction of Different Materials</a>	Concept Development
		<a href="#">Transformation of Energy</a>	Concept Development
		<a href="#">Heat Transfer in a Truck Engine</a>	Concept Development
		<a href="#">Heat Conduction and the Frying Pan</a>	Experiment
		<a href="#">Light Intensity and Distance from the Source</a>	Experiment
		<a href="#">Energy Conversions in a Power Plant</a>	Concept Development
Mixtures	Separation of Mixtures	<a href="#">Solubility</a>	Concept Development
			Experiment
Acids and Bases	The Properties of Acids	<a href="#">The Properties of Bases</a>	Experiment
		<a href="#">Identifying pH of Substances</a>	Experiment
			Experiment

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	<b>Electricity</b>	<a href="#">Electric Force</a> <a href="#">Voltage, Current, and Resistance: Ohm's Law</a> <a href="#">Resistance in Different Wires</a> <a href="#">Building Circuits: Light Bulbs in Series</a> <a href="#">Building Circuits: Light Bulbs in Parallel</a> <a href="#">Electrical Energy Consumed by a Light Bulb</a> <a href="#">Electric Motor</a>	Experiment Experiment Experiment Concept Development Concept Development Experiment Experiment
	<b>Force and Motion</b>	<a href="#">Newton's Second Law of Motion</a> <a href="#">Balanced and Unbalanced Forces</a> <a href="#">Newton's Third Law of Motion</a> <a href="#">Boom! How Far is the Lightning?</a> <a href="#">Free Fall</a> <a href="#">Springs Stretch with Force: Hooke's Law</a> <a href="#">Truck On: Position and Velocity-Time Graphs</a> <a href="#">Flight of the Arrow</a> <a href="#">Driving and Velocity Graphs</a> <a href="#">Properties of Waves</a> <a href="#">Effects of Different Surfaces on Motion</a> <a href="#">The Advantages of Friction</a> <a href="#">Magnetic Field of a Magnet</a> <a href="#">The Magnetic Field of a Coil</a> <a href="#">Escape Velocity: Launching Rockets</a> <a href="#">Magnetic Force</a> <a href="#">Buoyant Force</a> <a href="#">Buoyancy and Archimedes' Principle</a>	Experiment Experiment Experiment Concept Development Experiment Experiment Concept Development Experiment Concept Development Concept Development Concept Development Concept Development Concept Development Experiment Experiment Concept Development Experiment Experiment Experiment
	<b>Work and Energy</b>	<a href="#">Work</a> <a href="#">Gravitational Potential Energy: Seeing the Impact in Sand</a> <a href="#">Kinetic Energy: How It Changes with Mass and Speed</a> <a href="#">Simple Machines: Lever</a>	Experiment Experiment Experiment Experiment
	<b>Pressure</b>	<a href="#">Pressure in Liquids</a>	Experiment
	<b>Light</b>	<a href="#">Shadow Formation</a> <a href="#">Reflection of Light from Plane Mirrors</a> <a href="#">Color Absorption and Reflection: Light into Heat</a> <a href="#">Electromagnetic Spectrum</a> <a href="#">Color Mixing: Paints and Light</a> <a href="#">Refraction of Light</a> <a href="#">Light Reflection Puzzles</a>	Experiment Experiment Experiment Concept Development Concept Development Concept Development Concept Development

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<b>Earth and Space Science</b>	<b>Earth Materials and Shaping the Earth Surface</b>	<a href="#">Plate Tectonics: The Hawaiian Islands</a> <a href="#">Plate Tectonics: The Himalayas</a> <a href="#">Plate Tectonics: The Atlantic Ocean</a> <a href="#">Pangaea: Image of Earth 250 Million Years Ago</a> <a href="#">Determining Planet Layers from Seismic Waves</a> <a href="#">Earthquakes: Measuring Magnitude</a> <a href="#">Earthquake! Where Was It?</a> <a href="#">Finding the Global Location Using Latitudes and Longitudes</a> <a href="#">The Rock Cycle</a> <a href="#">Soil Erosion Investigations</a>	Concept Development Concept Development Concept Development Concept Development Concept Development Concept Development Concept Development Concept Development Concept Development Experiment
	<b>Resources in the Earth System</b>	<a href="#">Solar Energy: Design a Solar Car</a> <a href="#">Water Conservation</a> <a href="#">Nonrenewable Energy Sources</a> <a href="#">Drilling into Groundwater</a>	Concept Development Concept Development Concept Development Concept Development
	<b>Weather</b>	<a href="#">Greenhouse Effect</a> <a href="#">Sea and Land Breezes</a> <a href="#">Weather Prediction</a> <a href="#">Hurricane Formation</a>	Experiment Concept Development Concept Development Concept Development
	<b>Earth and Universe</b>	<a href="#">Formation of Seasons</a> <a href="#">Solar and Lunar Eclipses</a> <a href="#">Space Objects: Gravity and Motion</a> <a href="#">Space Objects Interaction Explorer</a> <a href="#">Comets</a> <a href="#">Make a Telescope: See the Moon</a> <a href="#">Black Holes</a> <a href="#">Star Types: In Search of Habitability</a>	Concept Development Concept Development Concept Development Concept Development Concept Development Concept Development Concept Development Concept Development

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Life Science	Structure and Function in Living Systems	<a href="#">Plants' Needs for Photosynthesis</a>	Experiment
		<a href="#">Factors Influencing Photosynthesis: Light Intensity and Amount of CO<sub>2</sub></a>	Experiment
		<a href="#">Factors Influencing Photosynthesis: Temperature and the Color of Light</a>	Experiment
<a href="#">Aerobic Respiration: What Produces Carbon Dioxide?</a>		Experiment	
<a href="#">The Nucleus and Control of a Cell: Hammerling's Experiment with Algae</a>		Experiment	
<a href="#">Aerobic Respiration in Plants</a>		Experiment	
<a href="#">Function of the Nucleus: Hammerling's Experiment with Algae</a>		Experiment	
<a href="#">Exploring Cells with a Microscope</a>		Concept Development	
<a href="#">Agent Organelles</a>		Concept Development	
<a href="#">Comparing Plant and Animal Cells</a>		Concept Development	
<a href="#">From One Cell to Two: Mitosis</a>		Concept Development	
<a href="#">Bees, Flowers and Pollination</a>		Concept Development	
<a href="#">Making Sperm and Eggs: Meiosis</a>		Concept Development	
<a href="#">Breeding Zebra Danio Fish: An Introduction to Sexual Reproduction</a>		Concept Development	
<a href="#">Identifying Cancerous Cells</a>		Concept Development	
<a href="#">Cancer Treatment</a>		Concept Development	
<a href="#">Muscles and Pinocchio's Arm</a>		Concept Development	
<a href="#">Joints</a>		Concept Development	
<a href="#">The Structure of Bones</a>		Interactive 3D Model	
<a href="#">Blood Typing and Transfusions</a>		Concept Development	
<a href="#">Digestive System</a>	Concept Development		
<a href="#">Human Body Systems</a>	Concept Development		
<a href="#">Dancing with the Bees: Animal Communication</a>	Concept Development		
<a href="#">The Nervous System</a>	Concept Development		
<a href="#">Eye Structures and Problems</a>	Concept Development		
<a href="#">Hear with the Ear</a>	Interactive 3D Model		
<a href="#">Vision and the Eye</a>	Interactive 3D Model		
Heredity and Genetics		<a href="#">Mendel's Experiment</a>	Experiment
		<a href="#">Find the Heir: Genetics Applied</a>	Concept Development
		<a href="#">Genetic Inheritance in People</a>	Concept Development
		<a href="#">DNA Structure</a>	Concept Development
Evolution, Diversity and Classification		<a href="#">Life from Nonliving Things? Redi's Experiment</a>	Experiment
		<a href="#">Spontaneous Generation: Pasteur's Experiment</a>	Experiment
		<a href="#">Functions of Roots</a>	Concept Development
		<a href="#">Natural Selection</a>	Concept Development
		<a href="#">Sorting and Identifying Animal Fossils</a>	Concept Development
		<a href="#">Analysis of Fossil Evidence</a>	Concept Development
		<a href="#">Biological Adaptation: Bird Beaks</a>	Concept Development
<a href="#">Classification of Animals</a>	Concept Development		

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	<b>Ecosystems</b>	<a href="#">Environmental Factors that Affect the Growth of Molds</a> <a href="#">Habitat Designer: Panda</a> <a href="#">Habitat Designer: Sea Turtle</a> <a href="#">Mutualism</a> <a href="#">Commensalism</a> <a href="#">Parasitism</a> <a href="#">The Energy Flow from Producer to Consumer</a> <a href="#">Graphical Visualization of Air Pollution</a>	Experiment Concept Development Concept Development Concept Development Concept Development Concept Development Concept Development Concept Development