

YEAR AT A GLANCE: *Science Grade 6 (updated Dec 2022)*

	<u>UNIT 1</u>	<u>UNIT 2</u>	<u>UNIT 3</u>	<u>UNIT 4</u>	<u>UNIT 5</u>
Title	Introduction to Science	Solar System	Chemistry of Materials	Land, Water & Human Interactions	Forces & Motion
Unit Length <i>(weeks taught)</i>	3 Weeks	9 weeks (goal)	8 weeks (goal)	8 weeks (goal)	9 weeks (goal)
Enduring Understanding (The big ideas, the “why” we include these ideas)	Lab safety Lab equipment Graphing Controlled experiments Variables observations/inferences/predictions Metric measurement	Exploring Space The predictable moon Explaining the moon’s phases Moon phase simulation The moon’s orbit Changing sunlight A year viewed from space Earth’s tilt Earth on the move Observing objects in space Drawing the solar system How big are the planets Identifying planets Gravitational force The effects of gravity Modeling gravity Choosing a mission	Exploring materials Investigating elements Physical & chemical properties of materials Determining density Evaluating properties of materials Modeling molecules Structure and properties of materials What’s in a state Energy and particle movement Modeling state changes The impact of plastics on society.	Where should we build Does it dissolve Water quality Living indicators Nutrients as contaminates Gulf of Mexico dead zone Cutting canyons and building deltas Traveling with the water cycle Human impact on Earth’s water Making topographic maps Boomtown’s topography Modeling cliff erosion Weathering, erosion, and	Improving car and driver safety Measuring and graphing speed Speed and Kinetic Energy Mass and kinetic energy Quantifying kinetic energy Changing direction Changing speed Force, mass & acceleration Newton’s Laws of Motion Interaction objects Newton’s third law Collision and Changes in motion Braking distance Coming to a stop Designing a car and driver safety system

				deposition Building on the Mississippi Building in Boomtown Building site plan	
Essential Questions (What do we want students to think about)		What kind of future space mission should we fund?	Why do materials have unique properties? What are the environmental impacts of producing, using, and disposing of materials?	Which area is the best choice for construction of a nuclear storage facility?	How can we make cars safer?