

## Science Grade 6 Scope & Sequence

Days	Unit	Standard(s)/Outcome(s)	Essential/Guiding Questions
20	Basketball vs. Tennis Ball <ul style="list-style-type: none"> <li>● Forms of Energy (Potential and Kinetic)</li> <li>● Energy Transfer</li> </ul>	MS-PS3-1 MS-PS3-2 MS-PS3-5 MS-ETS1-3	<i>Why does the tennis ball move like that?</i>
20	Feel the Heat <ul style="list-style-type: none"> <li>● Thermal Energy</li> <li>● States of Matter</li> <li>● State Changes</li> <li>● Particle Motion</li> </ul>	MS-PS1-4 MS-PS3-3 MS-PS3-4 MS-PS3-5 MS-ETS1-4	<i>How does this mystery substance "stop" heat?</i>
15	Boats the Float on Air <ul style="list-style-type: none"> <li>● Mass</li> <li>● Volume</li> <li>● Density</li> </ul>	MS-PS1-1 MS-PS1-4	<i>How does a boat float on air?</i>
20	Water for Astronauts <ul style="list-style-type: none"> <li>● Mixtures and Separation</li> <li>● Compounds</li> <li>● Atoms</li> <li>● Atomic Structure</li> </ul>	MS-PS1-1 MS-PS1-2 MS-PS1-4 MS-ETS1-4	<i>How do astronauts purify and drink their own urine?!</i>
20	Hydrogen Fuel Cells <ul style="list-style-type: none"> <li>● Chemicals Reactions</li> <li>● Conservation of Mass</li> </ul>	MS-PS1-1 MS-PS1-2 MS-PS1-3 MS-PS1-5 MS-PS1-6	<i>How does a hydrogen fuel cell use chemical reactions to power a car?</i>

15	<p>Rocket Launch</p> <ul style="list-style-type: none"> <li>● Reference Points</li> <li>● Balanced and Unbalanced Forces</li> <li>● Gravitational Attraction</li> <li>● Newton's Laws of Motion</li> </ul>	<p>MS-PS2-1 MS-PS2-2 MS-PS2-4</p>	<p><i>How is a rocket launched into space?</i></p>
20	<p>Scrapyard Magnet</p> <ul style="list-style-type: none"> <li>● Electricity</li> <li>● Magnetism</li> </ul>	<p>MS-PS2-3 MS-PS2-5 MS-PS3-2 MS-ETS1-4</p>	<p><i>How do magnets work? Why do magnets pick up some metals and not others?</i></p>
20	<p>Ruben's Tube</p> <ul style="list-style-type: none"> <li>● Wave Properties</li> <li>● Sound Waves</li> <li>● Light Waves</li> </ul>	<p>MS-PS4-1 MS-PS4-2 MS-PS4-3</p>	<p><i>How do waves travel? How do we transmit information?</i></p>