

## Science Grade 6 Scope & Sequence

| Days | Unit   | Standard(s)/Outcome(s)  | Essential/Guiding Questions  |
|------|--|---|--|
| 19   | Light and Matter   | MS-PS4-2<br>MS-LS1-8  | <i>Why do we sometimes see different things when looking at the same object?</i> |
| 37   | Thermal Energy   | MS-PS1-4<br>MS-PS3-3<br>MS-PS3-4<br>MS-PS3-5<br>MS-PS4-2<br>MS-ETS1-4 | <i>How can containers keep stuff from warming up or cooling down?</i>            |
| 25   | Water for Astronauts <ul style="list-style-type: none"> <li>● States of Matter</li> <li>● Mass, Volume, &amp; Density</li> <li>● State Changes</li> <li>● Atomic Structure</li> <li>● Classifying Matter</li> <li>● Separating Mixtures</li> </ul> | MS-PS1-1<br>MS-PS1-2<br>MS-PS1-4<br>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>● Physical and Chemical Changes</li> <li>● Chemicals Reactions</li> <li>● Conservation of Mass</li> </ul>   | MS-PS1-1<br>MS-PS1-2<br>MS-PS1-5<br>MS-PS1-6                          | <i>How does a hydrogen fuel cell use chemical reactions to power a car?</i>      |
| 30   | Rocket Launch  | MS-PS2-1  | <i>How is a rocket launched into</i>   |

|    |   |  |   |
|----|---|--|---|
|    | <ul style="list-style-type: none"> <li>● Potential and Kinetic Energy</li> <li>● Energy Transfers</li> <li>● Newton's Laws of Motion</li> <li>● Gravitational Attraction</li> </ul> | MS-PS2-2<br>MS-PS2-4<br>MS-PS2-5             | <i>space?</i>   |
| 20 | Scrapyard Junk <ul style="list-style-type: none"> <li>● Magnetic Forces</li> <li>● Electric Forces</li> <li>● Electromagnetism</li> <li>● Scrapyard Junk Challenge</li> </ul>       | MS-PS2-3<br>MS-PS2-5<br>MS-ETS1-4            | <i>How do objects interact with other objects even when they are not in contact with one another?</i> |
| 15 | Sound Waves <ul style="list-style-type: none"> <li>● Wave Properties</li> <li>● Sound Waves</li> <li>● Digital vs Analog Signals</li> </ul>   | MS-PS4-1<br>MS-PS4-2<br>MS-PS4-3<br>MS-LS1-8 | <i>How do waves travel?</i><br><br><i>How do we transmit information?</i>                             |