

RCSD 6th Grade Science * Quick Reference Pacing Guide * 2024-2025

Note: This document is meant to be a quick reference of the standards covered each nine weeks. For a complete description of the course, standards and performance objectives, see the [MS College and Career Readiness Standards for Science](#). In addition, RCSD Science Teachers are provided an expanded version of the pacing for support in lesson planning.

<p style="text-align: center;"><u>1st Term: Aug. 1 - Oct. 4</u> <i>July 25-26:29-31 - Staff Development</i> <i>Aug. 1 - First Day of School</i> <i>Sept 2 -Labor Day/Holiday</i> <i>Oct. 7-11 - School Holiday/Fall Break</i> <i>Oct. 14 - Staff Development</i></p>	<p style="text-align: center;"><u>2nd Term: Oct. 15 - Dec. 20</u> <i>Nov. 25-29 - Thanksgiving Break</i> <i>Dec. 16 - 20 - Exams</i> <i>Dec. 20 - Reduced Day</i> <i>Dec. 23 - Jan. 3 - Christmas Break</i></p>	<p style="text-align: center;"><u>3rd Term: Jan. 7 - Mar 7</u> <i>Jan. 6 - Staff Development</i> <i>Jan. 7 - Students Return</i> <i>Jan. 20 - MLK Day/Holiday</i> <i>Feb. 17 - Presidents' Day/Holiday</i> <i>March 10 - 14 - Spring Break</i></p>	<p style="text-align: center;"><u>4th Term: March 17 - May 23</u> <i>April 18, 21 - Easter/Holiday</i> <i>*STATE TESTING Window opens mid-April*</i> <i>May 19-23 - Exams</i> <i>May 23 - Reduced Day</i> <i>May 23 - Last Teacher Day</i></p>
<p>Science and Engineering Practices Scientific Method; Data Analysis Norms of Scientific Investigations Introduction to Engineering Design Process <i>*The above skills and concepts should be embedded in lessons throughout the year.</i></p> <p><u>P.6.6</u> Students will demonstrate an understanding of Newton's laws of motion using real world models and examples.</p> <p><u>E.6.8</u> Students will demonstrate an understanding of Earth's place in the universe and the interactions of the solar system (sun, planets, their moons, comets, and asteroids) using evidence from multiple scientific resources to explain how these objects are held in orbit around the Sun because of its gravitational pull.</p>	<p><u>L.6.1</u> Students will demonstrate an understanding that living things range from simple to complex, are organized hierarchically, and function as whole living systems.</p> <p>L.8.2A.2 Create a diagram of mitosis and explain its role in asexual reproduction, which results in offspring with identical genetic information.</p>	<p><u>L.6.3</u> Students will demonstrate an understanding of the relationships among survival, environmental changes, and diversity as they relate to the interactions of organisms, populations, and the environment.</p> <p>L.8.4A - Natural Selection</p>	<p><u>L.6.4</u> Students will demonstrate an understanding of classification tools and models such as dichotomous keys to classify representative organisms based on the characteristics of the kingdoms: Archaeobacteria, Eubacteria, Protists, Fungi, Plants, and Animals.</p> <p>P.7.5A - Students will demonstrate an understanding of the physical and chemical properties of matter.</p>