

Physical 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 detailed performance objectives, see the [MS College and Career Readiness Standards for Science](#)

Pacing Starting with Chemistry Standards:

1st Term: Aug. 1 - Oct. 4 <i>July 25-26;29-31 - Staff Development Aug. 1 - First Day of School Sept 2 -Labor Day/Holiday Oct. 7-11 - School Holiday/Fall Break Oct. 14 - Staff Development</i>	2nd Term: Oct. 15 - Dec. 20 <i>Nov. 25-29 - Thanksgiving Break Dec. 16 - 20 - Exams Dec. 20 - Reduced Day Dec. 23 - Jan. 3 - Christmas Break</i>	3rd Term: Jan. 7 - Mar 7 <i>Jan. 6 - Staff Development Jan. 7 - Students Return Jan. 20 - MLK Day/Holiday Feb. 17 - Presidents' Day/Holiday March 10 - 14 - Spring Break</i>	4th Term: March 17 - May 23 <i>April 18, 21 - Easter/Holiday *STATE TESTING Window opens mid-April* May 19-23 - Exams May 23 - Reduced Day May 23 - Last Teacher Day</i>
<p>Scientific Method Science and Engineering Practices Safety in the Lab Tools of Science Measurement/Graphing <i>* These scientific skills and concepts should be incorporated into units throughout the year and not just taught in isolation.</i></p> <p>PHS.1 - Nature of Matter (states of matter, properties, elements, compounds, mixtures, identifying unknowns, measurement, graphical analysis, density)</p> <p>PHS.2 - Atomic Theory (atomic models, historical and modern theories, scientists)</p>	<p>PHS.3 - Periodic Table (organization of, compounds, bonding, naming, computational analysis to determine mass)</p> <p>PHS.4 - Changes in Matter/Law of Conservation of Mass (physical and chemical changes, conservation of mass investigations, balancing chemical equations, stoichiometry, nuclear reactions and uses in modern world, advantages and disadvantages of nuclear reactions as energy sources)</p>	<p>PHS.5 - Newton's Laws of Motion (Newton, laws, motion, collecting and analyzing graphical data to determine speed, use mathematical and computation analyses to show the relationship between force, mass and acceleration, investigate force/mass/acceleration, design and construct models to demonstrate law of conservation of energy, efficiency of everyday machines)</p> <p>PHS.7 - Energy (forms of, transformation of energy from one type to another, calculate kinetic and potential energy, investigate conservation of energy)</p>	<p>PHS.8 - Thermal Energy Transfer (temperature scales, particle theory, phase changes, thermal energy transfer in real world applications)</p> <p>PHS.6 - Waves (types of waves, generate wave models, experiments on applications of sound, electromagnetic spectrum, particle/wave behavior of light)</p> <p>PHS.9 - Electricity (basic principles of, model relationship between magnetic fields and electric currents, magnets, motors, generators, modern uses of, construct and test conductors, semiconductors, insulators using various materials)</p>

Pacing starting with Physical Science Standards:

<p><u>1st Term: Aug. 1 - Oct. 4</u> <u>July 25-26;29-31 - Staff Development</u> <u>Aug. 1 - First Day of School</u> <u>Sept 2 -Labor Day/Holiday</u> <u>Oct. 7-11 - School Holiday/Fall Break</u> <u>Oct. 14 - Staff Development</u></p>	<p><u>2nd Term: Oct. 15 - Dec. 20</u> <u>Nov. 25-29 - Thanksgiving Break</u> <u>Dec. 16 - 20 - Exams</u> <u>Dec. 20 - Reduced Day</u> <u>Dec. 23 - Jan. 3 - Christmas Break</u></p>	<p><u>3rd Term: Jan. 7 - Mar 7</u> <u>Jan. 6 - Staff Development</u> <u>Jan. 7 - Students Return</u> <u>Jan. 20 - MLK Day/Holiday</u> <u>Feb. 17 - Presidents' Day/Holiday</u> <u>March 10 - 14 - Spring Break</u></p>	<p><u>4th Term: March 17 - May 23</u> <u>April 18, 21 - Easter/Holiday</u> <u>*STATE TESTING Window opens</u> <u>mid-April*</u> <u>May 19-23 - Exams</u> <u>May 23 - Reduced Day</u> <u>May 23 - Last Teacher Day</u></p>
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