## BHS Physical Science Curriculum Pacing Guide

**Course:** Physical Science  
**Grade:** 9-12

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<tr>
<th>August/January</th>
<th>September/February</th>
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| - Introductory Unit: Metric conversion; graphing; inference; density; mass, weight, and gravity.  
- Atomic Theory: atomic structure, isotopes, ions, periodic table organization. | - Chemical Reactions: Naming and formulas for binary covalent and ionic compounds; types of chemical formulas, balance equations.  
- Solutions: characteristics of solutions, solubility curve graphs, acids and bases. |

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<th>October/March</th>
<th>November/April</th>
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| - Radioactivity: Fundamental universal forces, types of radiation, half-life calculations, fission and fusion, nuclear power.  
- Force and Work: speed, velocity, and acceleration; Newton’s laws of motion; work and power; simple machines and mechanical advantage. |

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<th>December/May</th>
<th>Ongoing Concepts:</th>
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| - Waves: Mechanical and electromagnetic wave characteristics; wave calculations; reflection, refraction, interference, and diffraction; sound and the Doppler Effect.  
- Electricity and magnetism: Static electricity; series and parallel circuits; alternating and direct current; Ohm’s law; magnetism; motors and generators. | - Test  
- Projects  
- Presentations  
- Labs, lab safety, lab reports  
- Reading |