



## Science Curriculum Time Line

\*Topics in GREEN will be assessed on the PART 1: Performance-Based Assessment  
 All topics can be accessed on the Part 2: End-Of-Year Assessment

### Grade 8

<b>1<sup>st</sup> Grading Period</b>	Science Inquiry and Application		Physical Science		Earth and Space Science	
	Thinking like a Scientist Intro to Science, Technology and Engineering: Lab Safety, Procedures/Equipment; Team Building: Process Skills, Computer Technology: engineering Design *These skills/topics should continue throughout the year. 3 weeks		Forces (8.PS.2)  <b>Motion, Magnitude and Direction, Net Force/Diagrams, Inertia, Newton's 1<sup>st</sup> Law of Motion, Kinetic Friction</b>  4 weeks		Earth's Interior (8.ESS.1a)  <b>Earth's Layers Planet Formation</b>  2 weeks	
<b>2<sup>nd</sup> Grading Period</b>	Earth and Space Science					
	Earth's Interior (8.ESS.1b)  <b>Use of Seismic Waves, Convection Currents</b>  2 weeks	Theory of Plate Tectonics (8.ESS.2J)  <b>Historical and Contemporary Data, Convection Currents, Plate Boundaries, Boundary Motion and Resulting Events</b>  3 weeks	Formation of Earth's Surface (8.ESS.3)  <b>Constructive Forces, Destructive Forces, Features of Earth's Surface</b>  2 weeks	Geologic History (8.ESS.4)  <b>Geologic Time, Relative Age, Absolute Age, Interpreting Environmental Conditions</b>  2 weeks		
<b>3<sup>rd</sup> Grading Period</b>	Life Science					
	Diversity (8.LS.1)  <b>Effects of Changes in Environment on Species, Fossil Record, Diversity</b>  3 weeks	Reproduction (8.LS.2) Sexual Reproduction Asexual Reproduction  3 weeks		Heredity (8.LS.3) Traits, Genes, Alleles, Mendelian Genetics, Laws of Inheritance, Monohybrid Crosses 3 weeks		
<b>4<sup>th</sup> Grading Period</b>	Earth and Space Science			Life Science		
	Energy and Forces (8.PS.1,3) Types of Potential Energy, Electric/Magnetic Fields/Forces, Electric Current 5 weeks			8 <sup>th</sup> Grade Project Choice Board  Scientific Inquiry and Application, Technology and Engineering Design, Careers in Science/STEM		