

Physical Science 2019 – 2020

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Fall Semester 2019

Week	Unit	Topics	Standards
8/9	Syllabus, Pacing Guide, Procedures, Rules, Expectations		
8/12 – 8/23 (10 Days)	Unit 1: Using Mathematics to Explain the World	Metric System; Mass & Weight; Volume; Density; Graphing Skills; Dimensional Analysis; How to Write Scientifically; Scientific Method; Habits of Mind	SPS 8c
8/22 & 8/23	Unit 1 TEST		
8/26 – 9/27 (24 days)	Unit 2: ENERGY	Kinetic States of Solids, Liquids, and Gases; Phase Changes & Heating Curves; Specific Heat; Conduction, Convection & Radiation; Energy Transformations; Conservation of Energy	SPS 5a,b 7a,b,c,d
9/19 & 9/20	Unit 2 TEST		
9/30 – 11/01 (22 days)	Unit 3: MATTER vs. ENERGY	Properties of Waves (λ , Hz, E); Electromagnetic & Mechanical Waves; Manipulation of Waves; Doppler Effect; Atoms, Ions & Isotopes; Periodic Trends	SPS 1a,b,c 9a,b,c,d,e
10/31 & 11/01	Unit 3 TEST		
11/04 – 12/06 (20 days)	Unit 4: Behavior of Matter & Energy in Solutions	Properties of Solutions; Rate of Dissolution; Solubility Curve; Classifying Solutions as Acids, Bases, Other, Concentrated, Diluted, Conductive, Electrolytes	SPS 6a,b,c,d,e
12/5 & 12/6	Unit 4 TEST		
12/9 – 12/20	Unit 1 – 4 Review, Remediation MID-TERM	SPS 1a,b,c; 5a,b; 6a,b,c,d,e; 7a,b,c,d; 8c	

END OF Fall SEMESTER 2019
Happy Holidays, see you back on January 7th 2019!!!



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Spring Semester 2020

Week	Unit	Topics	Standards
1/7	Welcome Back, Reflection, New Year New Expectations		
1/8 – 2/7 (22 Days)	Unit 5: Human Manipulation of Matter and Energy	Motion; Force; Work; Mathematical & Graphical representation of Distance, Displacement, Velocity, Time, & Acceleration; Newton's 3 Laws; Mechanical Advantage	SPS 8a,b,d
<i>2/6 & 2/7</i>	Unit 5 TEST		
2/10 – 2/28 (14 days)	Unit 6: The Influence of the Electron: Electricity & Magnetism	What is Electricity; How does it work; Relationship between magnetism and electricity; Ohm's Law; D.C. vs. A.C.; Series vs. Parallel Circuits;	SPS 10a,b,c
<i>2/27 & 2/28</i>	Unit 6 TEST		
3/2 – 3/26 (17 days)	Unit 7: Introduction to the Energy of Nuclear Reactions	Nuclear Change; Model Development; Mathematical $\frac{1}{2}$ life; Using $\frac{1}{2}$ life data applications in real world; application, benefits, problems of nuclear energy as an alternative energy source.	SPS 4a,b,c
<i>3/25 & 3/26</i>	Unit 7 TEST		
3/30 – 4/22 (13 days)	Unit 8: Introduction to How "Free Energy" Influences Chemical Bonding	Physical vs Chemical change; Entropy; Use data to predict Ionic or covalent compounds; Properties of Bonds; Predict formulas for Stable compounds; IUPAC nomenclature; Conservation of Mass & Balancing)	SPS 2a,b,c 3a,b
<i>4/21 & 4/22</i>	Unit 8 TEST (retake must be taken by 5/3)		
4/23 – 4/21	Unit 1 – 8 Review, Remediation <u>GA Milestone EOC</u>	All standards SPS 1 -10	

END OF SPRING SEMESTER 2020
 !!!Have a Great SUMMER BREAK!!!

