

Physical Science 2018 – 2019

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Fall Semester 2018

Week	Unit	Topics	Standards
8/10	Syllabus, Pacing Guide, Procedures, Rules, Expectations		
8/13 – 8/27 (11 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
8/28 & 8/29	<u>Unit 1 TEST</u> (retake must be taken by 9/11)		
8/30 & 9/20 (21 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, 7a,b,c,d
9/21 & 9/24	<u>Unit 2 TEST</u> (retake must be taken by 10/9)		
9/25 – 10/16 (21 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
10/17 & 10/18	<u>Unit 3 TEST</u> (retake must be taken by 10/31)		
10/19 – 11/28 (23 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
11/29 & 11/30	<u>Unit 4 TEST</u> (retake must be taken by 12/19)		
12/3 – 12/19	Unit 1 – 4 Review, Remediation <u>MID-TERM</u>	SPS 1a,b,c; 5a; 6a,b,c,d,e; 7a,b,c,d; 8c	

END OF Fall SEMESTER 2018

Happy Holidays, see you back on January 4th 2019!!!



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Spring Semester 2019

Week	Unit	Topics	Standards
1/4	Welcome Back, Housekeeping Day		
1/7 – 2/6 (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
2/8 & 2/11	<u>Unit 5 TEST</u> (retake must be taken by 2/22)		
2/12 – 3/5 (15 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
3/6 & 3/7	<u>Unit 6 TEST</u> (retake must be taken by 3/20)		
3/11 – 3/27 (12 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
3/28 – 3/29	<u>Unit 7 TEST</u> (retake must be taken by 4/19)		
4/8 – 4/24 (12 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
4/25	<u>Unit 8 TEST</u> (retake must be taken by 5/3)		
4/26 – EOC	Unit 1 – 8 Review, Remediation <u>GA Milestone EOC</u>	All standards SPS 1 -10	

END OF SPRING SEMESTER 2019
 !!!Have a Great SUMMER BREAK!!!

