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| **Units** | **Dates** | **2016-2017** | **SOL** |
| **Unit 1** | 8/23 – 8/26 | 1. Lab Safety 2. Lab Safety Quiz | PS.1 a  PS.2a  PS.1 b, c, d |
| **Unit 1** | 8/29 –9/2 | 1. Experimental Design 2. Intro to Metric Conv. 3. Mass & Volume   Lab: solids and liquids | PS.1 b, c, d |
| **Unit 1** | 9/5-9/9 | 1. Experimental Design 2. Introducing Density    1. Using clay for density. Students create different size cubes. 3. Density Lab on Solids/Liquids    1. Identifying substances by density    2. Layering of liquids 4. Talk about the density of planets; introduce concepts. |  |
| **Unit 1** | 9/12-9/16 | 1. Watersheds 2. Water Cycle 3. Phase Changes | 6.7 |
| **Unit 1** | 9/19-9/23 | 1. Physical Properties:    1. Solubility (Solubility Gizmo) 2. Chemical Properties    1. Acids & Bases |  |
| **Unit 1** | 9/26-9/30 | 1. Introducing: Elements, Compounds, & Mixtures    1. Reinforce Acids & Bases |  |
| **Unit1** | 10/03-10/07 | 1. Cont. with Elements, Compounds, & Mixtures. Making sure to introduce particle theory again. | PS.1 b, c, d |
| **Unit 1** | 10/10-10/14 | Review Unit 1 Materials, Assessment on Lab Days, History of an Atom |  |
| **Unit1** | 10/17-10/21 | Atomic Theory, Particle Theory, Atomic Structure |  |
| **Unit1** | 10/24-10/28 | Periodic Table, Bohr Model, Ionic & Covalent Bonding |  |
| **Unit 1** | 10/31-11/04 | Periodic Table, Bohr Model Ionic & Covalent Bonding |  |
| **Unit 2** | 11/07-11/11 | 1. Chemical Equations    1. Analyzing and identifying    2. Compare and Contrast formulas and equations 2. Conservation of Mass |  |
| Unit 2 | 11/14-11/18 | 1. Chemical Equations    1. Analyzing and identifying    2. Compare and Contrast formulas and equations 2. Conservation of Mass |  |
| Unit 2 | 11/21-11/22 | Balancing Equations  Thanksgiving |  |
| Unit 2 | 11/28-12/02 | Balancing Equations, Endothermic and Exothermic Equations; Neutralization Equations |  |
| Unit 2 | 12/05-12/09 | Chemistry Review |  |
|  | 12/12-12/16 | Chemistry Midterm, SOL Review |  |
|  | 12/19-01/02 | Winter Break |  |
|  | 01/03-01/06 | **Energy**   1. Energy: (kinds and forms) 2. Energy Transfers 3. Kinetic/Potential Energy 4. Temperature Scales: C, K, F (Spoke in Chemistry revisit) 5. Conduction/Convection Radiation 6. Heat 7. Phase Changes 8. Melting Pt, Boiling Pt, Condensation 9. Fusion and Fission 10. Isotopes (revisit) | PS.1 g, h, i, j, k, m, n  PS.6 a  PS.6 b, c  PS.7 a, c, d |
|  | 01/09-01/13 | **Energy**   1. Energy: (kinds and forms) 2. Energy Transfers 3. Kinetic/Potential Energy 4. Temperature Scales: C, K, F (Spoke in Chemistry revisit) 5. Conduction/Convection Radiation 6. Heat 7. Phase Changes 8. Melting Pt, Boiling Pt, Condensation 9. Fusion and Fission 10. Isotopes (revisit) | PS.1 g, h, i, j, k, m, n  PS.6 a  PS.6 b, c  PS.7 a, c, d |
|  | 01/17-01/20 | **Force & Motion Unit**   1. Motion, Speed, Measurement 2. Interpreting Motion Graphs and acceleration 3. Difference between mass and weight 4. Introduction to Force (Balance and Unbalance) |  |
|  | 01/24-01/27 | **Force & Motion Unit**   1. Motion, Speed, Measurement 2. Interpreting Motion Graphs and acceleration 3. Difference between mass and weight 4. Introduction to Force (Balance and Unbalance) |  |
|  | 01/30-02/03 | **Force & Motion Unit**   1. Interpreting Motion Graphs and acceleration 2. Difference between mass and weight 3. Introduction to Force (Balance and Unbalance) | PS.7 a, c, d |
|  | 02/06-02/10 | **Work Unit**   1. Work: Formula For Power 2. Mechanical Advantage 3. Simple Machines 4. Efficiency |  |
|  | 02/13-02/17 | **Work Unit**   1. Work: Formula For Power 2. Mechanical Advantage 3. Simple Machines 4. Efficiency 5. Assessment | PS.10 a, b, c, d |
|  | 02/20-02/24 | Review & Asssessment for Energy, Work, Power, Force and Motion. | PS.10 a, b, c, d |
|  | 02/27-03/03 | **Waves Unit**   1. Wave Mechanics: Wavelength, Frequency, Amplitude. 2. Electromagnetic Spectrum 3. **Nature of Light:** Reflection, Refraction, Interference 4. Mirrors and Lenses 5. Mechanical Waves: Longitudinal 6. Assessment | PS. 11 a, b, c |
|  | 03/06-03/10 | **Waves Unit**   1. Wave Mechanics: Wavelength, Frequency, Amplitude. 2. Electromagnetic Spectrum 3. **Nature of Light:** Reflection, Refraction, Interference 4. Mirrors and Lenses 5. Mechanical Waves: Longitudinal 6. Sound 7. Assessment |  |
|  | 03/13-03/17 | **Electro-Magnetism Unit**   1. Static Electricity 2. Circuits 3. Magnetism 4. Electromagnetism 5. Solenoid 6. Generators/Motors |  |
|  | 03/20-03/24 | **Electro-Magnetism Unit**   1. Static Electricity 2. Circuits 3. Magnetism 4. Electromagnetism 5. Solenoid 6. Generators/Motors |  |
|  | 03/27-03/31 | SOL Review |  |
|  | 04/03-04/07 | SPRING BREAK |  |
|  | 04/10-04/14 | SOL Review |  |
|  | 04/17-04/21 | SOL Review |  |
|  | 04/24-04/28 | SOL Review |  |
|  | 05/01-05/05 | SOL Review |  |
|  | 05/08-05/12 | SOL Review |  |
|  | 05/15-05/19 | SOL Review |  |
|  | 05/22-05/26 | 1. Search Buford Sound on google sites: https://sites.google.com/a/charlottesvilleschools.org/sound/home |  |
|  | 05/29-06/02 |  |  |
|  | 06/05-06/09 |  |  |
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