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| **Units** | **Dates** | **2016-2017** | **SOL** |
| **Unit 1** | 8/23 – 8/26 | 1. Lab Safety
2. Lab Safety Quiz
 | PS.1 aPS.2aPS.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.
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| **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
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| **Unit 1** | 9/26-9/30 | 1. Introducing: Elements, Compounds, & Mixtures
	1. Reinforce Acids & Bases
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| **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
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| Unit 2 | 11/14-11/18 | 1. Chemical Equations
	1. Analyzing and identifying
	2. Compare and Contrast formulas and equations
2. Conservation of Mass
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| Unit 2 | 11/21-11/22 | Balancing EquationsThanksgiving  |  |
| 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, nPS.6 aPS.6 b, cPS.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, nPS.6 aPS.6 b, cPS.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)
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|  | 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)
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|  | 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
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|  | 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
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|  | 03/13-03/17 | **Electro-Magnetism Unit**1. Static Electricity
2. Circuits
3. Magnetism
4. Electromagnetism
5. Solenoid
6. Generators/Motors
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|  | 03/20-03/24 | **Electro-Magnetism Unit**1. Static Electricity
2. Circuits
3. Magnetism
4. Electromagnetism
5. Solenoid
6. Generators/Motors
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|  | 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
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|  | 05/29-06/02 |  |  |
|  | 06/05-06/09 |  |  |
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