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 a. Using clay for density. Students create different size cubes. 3. Density Lab on Solids/Liquids a. Identifying substances by density b. 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: a. Solubility (Solubility Gizmo) 2. Chemical Properties a. Acids & Bases	
Unit 1	9/26-9/30	1. Introducing: Elements, Compounds, & Mixtures a. 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 a. Analyzing and identifying b. Compare and Contrast formulas and equations 2. Conservation of Mass	
Unit 2	11/14-11/18	3. Chemical Equations a. Analyzing and identifying b. Compare and Contrast formulas and equations 4. 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** 11. Energy: (kinds and forms) 12. Energy Transfers 13. Kinetic/Potential Energy 14. Temperature Scales: C, K, F (Spoke in Chemistry revisit) 15. Conduction/Convection Radiation 16. Heat 17. Phase Changes 18. Melting Pt, Boiling Pt, Condensation 19. Fusion and Fission 20. 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	**<u>Force & Motion Unit</u>** 5. Motion, Speed, Measurement 6. Interpreting Motion Graphs and acceleration 7. Difference between mass and weight 8. Introduction to Force (Balance and Unbalance)	
	01/30-02/03	**<u>Force & Motion Unit</u>** 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** 5. Work: Formula For Power 6. Mechanical Advantage 7. Simple Machines 8. Efficiency 9. 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	**<u>Waves Unit</u>** 1. Wave Mechanics: Wavelength, Frequency, Amplitude. 2. Electromagnetic Spectrum 3. **Nature of Light:** Reflection, Refraction, Interference 4. Mirrors and Lenses	PS. 11 a, b, c

		5. Mechanical Waves: Longitudinal 6. Assessment	
	03/06-03/10	**<u>Waves Unit</u>** 7. Wave Mechanics: Wavelength, Frequency, Amplitude. 8. Electromagnetic Spectrum 9. **Nature of Light:** Reflection, Refraction, Interference 10. Mirrors and Lenses 11. Mechanical Waves: Longitudinal 12. Sound 13. 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** 7. Static Electricity 8. Circuits 9. Magnetism 10. Electromagnetism 11. Solenoid 12. 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 2.	
	05/29-06/02		
	06/05-06/09		