

1st Semester Reflections Activities and 2018/19 Calendar

Aug.

- 15 Welcome to 8th Grade
- 16 Intro to Science Notes
- 17
- 20 Notes: Scientific Method, Use Science Notebooks
- 21 Science Sleuths DVD exploratory,
- 22 Practice: Sci. Method Orange Card Game (Power Point)
- 23 Notes: Scientific Method, Use Science Notebooks
- 24 Activity: Sponge Bob Scientific Method
- 27 Reading Guide Pages 14-18 & 29,31-33 Due 8/31
- 28 Practice: Form Hypothesis
- 29 Practice: Variables in an Experiment
- 30 Practice: Falling Parachutes/Trend-line Exploration Graphing (Test Study Guide)
- 31 Activity: Construct and Interpreting Graphs Due: 9/4

Sept.

- 3 Holiday
- 4 Practice: Classmate Data Collection and Graphing
- 5 Power Point Experiment Analysis or Accuracy and Reproducibility of Data
- 6 Test: Scientific Method
- 7 Explore: Measure length and volume of objects in tub. Then measure room from left to right using the most accurate standard of measure available to you. Make a data table to share your data with the class.
- 10 Notes: Metric Measurement
- 11 Practice: Metric units of Distance (or Measuring)
- 12 Activity/Practice: Scientific Method + Metric System, and or Learn to Measure
- 13 Lab: Lost in the woods or Making Metric Measurement of Length
- 14 Staff Development
- 17 Reflection: Motion exploratory; What is motion, and how do we measure it? What makes an object that is not moving move?
- H.W. Chap 9 Reading Guide 157,158,160 (1-4), 161, 162 Due: 9/19
- 18 Motion Graph Power Point Intro.
- 19 Activity: D/T and S/T Demo 1 & 2 + Assignment 1 & 2
- 20 Notes: Motion
- 21 Practice: Motion Graphs pages 1-3 may begin 4-11 OR H.W. Acceleration Reading Guide pages 163,165,166 Due: 9/26 (Hand out Physics Equation Sheet)
- 24 Activity: Measure Constant Speed
- 25 Notes: Speed, Velocity, and Acceleration
- 26 Lab: Measure Speed
- 27 Lab: Tracking a Toy Golf ball
- 28 Activity: Speedy Journey & Calculations of Motion OR Describe and Measure Motion + (Motion test Study Guide)

Oct.

- 1 Practice: Speed Problems & or Chapter 9 Math Skills
- 2 Notes: Velocity, Acceleration, and Force
- 3 Activity: Calculating Speed, Time, Distance, and Acceleration
- 4 Activity: Measuring Acceleration
- 5 Test: Motion
- 8 Reflection: What is Force, and how do Forces affect you? H.W. Reading Guide 173-178 Due: 10/10
- 9 Notes: Newton's Laws of Motion
- 10 Lab: Inclined Plane
- 11 Notes: Newton's Laws
- 12 Practice: Net force Wagons H.W. Reading Guide 179-184 Due: 10/16
- 15 Notes: Finish Newton's Laws + Practice 2-3 Newton's Laws of Motion
- 16 Lab: Skateboard; Relationship between Mass and Inertia
- 17 Lab: Crash Dummies; Relationship between Velocity and Inertia
- 18 Activity: Working with Forces (modified day)
- 19 Practice: Random Newton Practice Problems + Homework= Forces Study Guide (modified day)
- 22 Practice: Exploring Laws of Motion Pre-test from video
- 23 Activity: Force, Mass, Acceleration Due: 10/25
- 24 Lab: Newton's 2nd Law of Motion
- 25 Lab: Newton's 2nd Law of Motion
- 26 Test: Forces
- 29 Lab: Begin Roller Coaster Application Lab * Calculate Average Speed of Marble (for extension)
- 30 Lab: Roller Coaster Application Lab Trials
- 31 Lab: Air Car Application Lab
- 1 Lab: Air Car Application Lab
- 2 Lab: Air Car Application Lab

Nov.

- 5 Lab: Air Car Application Lab
- 6 Lab: Air Car Application Lab
- 7 Lab: Race & Grade Air Cars
- 8 Notes: Electricity & Magnetism
- 9 Lab: Floating paper clip and Which pole is Attracted
- 12 Holiday
- 13 Notes: Electricity and Magnetism
- 14 Activity/Lab: Seeing Magnetic Lines
- 15 Notes: Finish Electricity and Magnetism
- 16 Lab: Electromagnets (Intro)

19-25 Holiday

26 Activity: Electromagnet Strength

27 Activity/Lab: Magnetic Confusion

28 Kahoot or Jeopardy

29 Notes: Intro to Waves

30 Lab: Simple Electric Motor

Dec.

3 Notes: Waves and Frequency

4 Lab: How many Swings can you get?

5 Activity: Types of Waves and Wave Properties Ver. 2

6 Notes: Waves

7 Lab: Wave type Exploration: Wave Energy and Speed, or Wave Speed, Frequency and Wavelength

10 Activity: Compare and Contrast Analog Vs. Digital Signals (Venn Diagram)

11 Study Guide or Jeopardy

12 Test: Electricity/ Magnetism and Waves

13 Lab: Who released Jumbo

14 Lab: Finish Who Released Jumbo

17 Study for Final 1st Semester Study Guide

18 Semester 1 review on Power Point

19 Study for Final

20 Study for Final

21 Test: 1st Semester final

24- Jan 6 Christmas Break