

PHYSICAL SCIENCE  
EXPLORING CREATION WITH PHYSICAL SCIENCE  
FALL 2018 SYLLABUS

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Aug 31            **Read Module 1    The Basics**

Experiment 1.1 Atoms & Molecules

Experiment 1.3 Concentration

Sup. Exp. 1.B Acids & Bases

*Study questions 2,3,7,8,11*

Sep.7            **Read Module 2    Air**

Experiment 2.1 *Relative humidity* (discuss only)

Experiment 2.2 Oxygen & fire

Experiment 2.3 Greenhouse effect

*Study guide questions 2,4,6,8,11,12,13,16,17,18*

Sep 21            **Read Module 3    Atmosphere**

Experiment 3.1 Air pressure

Experiment 3.2 Changing temperatures

Sup. Exp.3.A "magic egg"

*Study guide questions 2,4,5,7,9,10,11,13*

Oct 5            **Read Module 4    Water**

Experiment4.1 Chemical composition of water

Experiment 4.2 Water Polarity

Experiment 4.3 Solvents & Solutes      4.4 (discuss only)

Experiment 4.5 Water's Cohesion

Experiment 4.6 Forces between molecules

*Study guide questions 2,4,5,6,8,10,12,14*

Oct. 12            **In class review activity for Modules 1,2,3,4**

Oct. 19            **Read Module 5    Hydrosphere**

Experiment 5.1 Evaporation, Condensation, Precipitation

Experiment 5.2 Ice and salt (discuss only)

Experiment 5.3 Cloud formation

*Study guide questions 2,4,5,8,9,10,12,13,19,20,21*

Nov 2            **Read Module 6    Earth**

Experiment 6.1 Sound travel (discuss only)

Experiment 6.2 Simulation of plastic rock

Experiment 6.3 Electromagnet

Experiment 6.4 Model plate tectonics (discuss only)

Sup. Exp. 6.A Mystery mixture

*Study guide questions 2,4,7,8,11,12,13,16,18,*

Nov. 9            **Read Module 9    Physics**

Experiment 9.1 Importance of direction

Experiment 9.2 Acceleration & gravity

Experiment 9.3 Measuring height with stopwatch

Sup. Exp. 9.A Momentum Lab (car)

Sup. Exp. 9.B Momentum Lab (golf ball, ping pong ball)

*Study guide questions 1,2,4,5,7,8,10*

Nov.16            **Read Module 10 NEWTON'S LAWS**

Lab. 10.1            demonstrating Newton's first law

Lab. 10.2            understanding Newton's first law

Lab. 10.3            friction

Lab. 10.4            Newton's third law

*Study guide questions 1,2,4,6,9,10,12,13,16*

Dec. 3            **In class review activity for Modules 5,6,9,10**

Class supplies:

Text: Exploring Creation with Physical Science by Wile

3-ring binder for class lab notes, notebook paper and writing utensils