

Syllabus

Course Title: Physical Science

Grade: 8

DESCRIPTION OF COURSE: This course studies the concepts of matter and energy. Approximately half of the school year is spent focused on examining measuring motion, forces, energy and its different forms such as heat and light. The rest of the year is exploring matter, what substances are made of, how they change and combine, and ways to describe and classify matter. The structure of the atom and the periodic table are key concepts mentioned frequently in this part of the year

REQUIRED TOPICS OF STUDY	SUGGESTED INSTRUCTIONAL TIME	STANDARDS/ ELIGIBLE CONTENT
Nature of Science / Safety	3 weeks	3.2.10A, 3.2.12.B, 3.2.10B
Describing Motion	2 weeks	3.4.10.B, 3.4.10.C6
Laws of Motion	2 weeks	3.4.10.B, 3.4.10.C6, 3.4.10.C7
Work and Simple Machines/Forces and Fluids	2 weeks	3.4.10.C2 & C3 & C8
Energy and Energy Resources	2 weeks	3.4.10.B3 & B4
Thermal Energy	2 weeks	3.4.10.B3 & B4
Foundations of Chemistry	2 weeks	3.4.10A3, 3.4.10A4
States of Matter/Understanding the Atom	2 weeks	3.4.10.A8 , 3.4.10.A2
The Periodic Table	3 weeks	3.4.10.A8, 3.4.10.A2
Elements and Chemical Bonds	2 weeks	3.4.10.A8
Chemical Reactions and Equations	2 weeks	3.4.10.A6 & A7, 3.4.10B1 & B3
Mixtures, Solubility and Acid Base Chemistry	1 weeks	3.4.10.A8
Waves – Sound and Light	2 weeks	3.4.10.C4, C5 & C6, 3.4.10.C1
Electricity and Magnetism	2 weeks	3.4.10.B2 & B5

RESOURCES: Physical Science i Series - Publisher McGraw Hill
Online Components, Labs, Vernier Lab Equipment, Common Assessment

Rev.: May - 2015

Curr/Syllabus/Science/Gr 8
BAC/Ct/e-mailed S Neas/5/28/15