

General Syllabus for 10th grade Physical Science in Conneaut School District

Text Information: Prentice Hall Physical Science Concepts in Action with Earth and Space Science 2009

Online Text Book: www.pearsonsuccessnet.com

Course Description: Physical Science is a study of Matter and Energy in both the pure and technological studies. Students will develop critical thinking skills by applying the concepts that align to the PA assessment anchors.

Term 1

Week	Topics Covered	PA anchors
1	Science Skills/What is science and measurements	S11.A.1.1.1 S11.A.1.1.2 S11.A.1.1.4
2	Properties of Matter/ physical properties	S11.C.1.1.2
3	Properties of Matter/chemical properties	
4	States of Matter	S11.C.1.1.2
5	States of Matter	
6	Atoms/structure	S11.C.1.1.1

Term 2

Week	Topics Covered	PA anchors
7	Atoms/atomic theory	S11.C.1.1.2
8	Periodic Table/organizing	S11.C.1.1.3
9	Periodic Table/groupings	
10	Chemical bonds/ionic	S11.C.1.1.3
11	Chemical bonds/covalent	
12	Chemical bonds/	

Term 3

Week	Topics Covered	PA anchors
13	Chemical Reactions/types	S11.C.1.1.6
14	Chemical Reactions/energy changes	S11.C.2.1.2
15	Motions	S11.C.3.1.3
16	Forces	
17	Newton's laws	
18	Gravity	

Term 4

Week	Topics Covered	PA anchors
19	Forces and fluids	S11.C.1.1.5
20	Work and energy/forces	S11.C.1.1.5
21	Work and energy/simple machines and mechanical advantage	S11.C.3.1.1 S11.C.3.1.5
22	Energy/Kinetic	S11.C.3.1.6
23	Energy/potential	S11.C.3.1.2
24	Electricity	S11.C.3.1.4

Term 5

Week	Topics Covered	PA anchors
26	Electricity	S11.C.2.1.4
27	Magnetism	
28	Magnetism	
29	Earth's surface	S11.D.1.1.1
30	Weather	S11.D.1.1.2 S11.D.1.1.3

Term 6

Week	Topics Covered	PA anchors
31	Climates	S11.D.2.1.1
32	Solar System	S11.D.2.1.3
33	Exploring the Universe	S11.D.2.1.4
34	PSSA Testing and Review	S11.D.3.1.1
35	Energy Resources	S11.D.3.1.2
36	Final exams	S11.D.3.1.3 S11.C.2.2.2/S11C.2.2.3

Instruction:

Lecture
Power point presentations
Streaming Media
Demonstrations
Student Inquiry labs/ Guided labs
Videos
CD-Rom instructions
Cooperation learning

Assessment:

Success tracker (online testing and remediation)
Projects/ independent research (power point presentation, research paper)
Teacher observation
Tests
Quizzes
Lab activities with writing component

Parent/ Student Resources:

Online textbook with audio capabilities
Success tracker (online assessment tool)
Online leveled readers