

Northampton Area School District

“Year at a Glance” Earth Science

Board Approval Date: January 28, 2019



**NORTHAMPTON AREA
SCHOOL DISTRICT**
Learn, Listen, and Lead

Common Units of Study with Sample Lesson Topics	Estimated Time	Big Idea (s)	PA Academic Standard(s)
Unit 1: <ul style="list-style-type: none"> ● Earth Systems ● Branches of Earth Science ● Scientific Method ● Mapping 	3 Weeks	What are the major branches of Earth Science? How do you conduct a proper experiment?	3.3.10.A 3.3.10.A3 3.3.10.A6
Unit 2: <ul style="list-style-type: none"> ● Rocks and Minerals ● Rock Cycle ● Types of Rocks (Igneous and Sedimentary) ● Properties of Rocks and Minerals 	5 Weeks	What is a mineral? What are the major types of rocks and how are they classified?	4.3.10.A 3.3.10.A1 3.3.10.A2
Unit 3: <ul style="list-style-type: none"> ● How the Earth was made ● Solar Systems ● Gravity and Orbits ● Sun and Planets 	5 Weeks	How was the Earth formed and how has it evolved over time? How are planets impacted by the forces of gravity and energy	3.3.10.B1 3.3.10.B2
Unit 4: <ul style="list-style-type: none"> ● Composition and Origin of the Universe ● The Milky Way ● Galaxies ● Expanding Universe 	4 Weeks	What are the components of a Galaxy? How is the Universe composed and what is its fate?	3.3.12.B1