

Northampton Area School District Elementary Science
 “Year at a Glance” – GRADE 4 Science – Pearson Interactive



Common Units of Study with Sample Lesson Topics	Textbook Chapter(s)	Estimated % of Course Time	Estimated Time*	Big Idea (s)	Gr. 4 Eligible Content	DATE Completed/ INITIALS
Unit A: Science, Engineering, and Technology <ul style="list-style-type: none"> Topics: The Nature of Science; Technology and Design 	Science Chap. 1-2; <i>Pennsylvania: Our Home and Tales of the Tompath</i> (tech. changes, natural vs. man-made, & map skills)	12%	2 weeks (½ yr.)	What is science? How does technology affect our lives?	S4.A.1.1.1 S4.A.1.1.2 S4.A.2.1.1/2/3/4 S4.A.3.2.1/2/3 S4.A.3.1.1	
Unit B: Life Science <ul style="list-style-type: none"> Topics: Plants and Animals; Ecosystems (include <i>lotic</i> and <i>lentic</i> and biological pests) 	Science Chap. 3-4; <i>Pennsylvania: Our Home and Tales of the Tompath</i> (human reliance on environment)	24%	4.5 weeks (½ yr.)	What do living organisms need to survive? How do living things interact with their environments?	S4.A.1.3.4/5 S4.A.2.2.1 S4.A.3.1.2/3/4 S4.A.3.3.1 S4.B.1.1.1/2/3/4/5 S4.B.2.1.1/2 S4.B.2.2.1 S4.B.3.1.1/2 S4.B.3.2.1/2 S4.B.3.3.1/2/3/4/5	

<p>Unit C: Earth Science</p> <ul style="list-style-type: none"> • Topics: Earth's Resources; Earth and Space; Weather 	<p>Science Chap. 5-6; Discover <i>Weather</i> booklet; Discovery Ed. video <i>Weather Smart: Forecasting and Weather Instruments</i>; <i>Pennsylvania: Our Home</i> (landforms)</p>	<p>24%</p>	<p>4.5 weeks (½ yr.)</p>	<p>How do Earth's resources change? What are basic weather conditions and how are they measured? What are some patterns in space?</p>	<p>S4.A.2.2.1 S4.A.3.3.1/2 S4.B.3.2.3 S4.D.1.1.1/2/3 S4.D.1.2.1/2/3 S4.D.1.3.1/2/3 /4 S4.D.2.1.1/2/3 S4.D.3.1.1/2/3</p>	
---------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------	------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------	--

Common Units of Study with Sample Lesson Topics	Textbook Chapter(s)	Estimated % of Course Time	Estimated Time (days)*	Big Idea (s)	Gr. 4 Eligible Content	DATE Completed/ INITIALS
<p>Unit D: Physical Science</p> <ul style="list-style-type: none"> • Topics: Matter; Energy and Heat; Electricity and Magnetism; Motion 	Science Chap. 7-10	33%	6 weeks (½ yr.)	How can matter be described and measured? How does energy cause change? How are electricity and magnetism used? How can motion be described and measured?	S4.A.1.3.1/2/3 S4.A.2.2.1 S4.C.1.1.1/2 S4.C.2.1.1/2/3/4 S4.C.3.1.1/2/3	
<p>Unit E: Health</p> <ul style="list-style-type: none"> • Topics: Respiratory System, Circulatory System; Tobacco, Alcohol, and Other Drugs 	Kids Discover <i>Lungs</i> booklet; Kids Discover <i>Heart</i> booklet; Discovery Ed. video <i>Drug Danger: In the Body</i>	7%	1 week (½ yr.)	How does the respiratory system work? What are the dangers of alcohol, tobacco, and other drugs?	S4.A.3.2.3 S4.B.1.1.1 Standards 10.1.3.B 10.1.6.D/E	

* Assuming that science is taught in two marking periods (1st and 3rd), teach Chapters 1-5 in the first marking period and Chapters 6-10, weather, and health in the third marking period.

BOARD APPROVED 8/19/2014

Curriculum Office 7/28/2014