Publisher	Text Grade 6 VA FOSS Con	mprehensive
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2018 Grade Six Science Standards of Learning		
STAN	NDARD	Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)
6.2	The student will investigate and understand that the solar system is organized and the various bodies in the solar system interact. Key ideas include	This SOL is covered in the Grade 6 FOSS module – <i>Planetary Science</i> .
a)	matter is distributed throughout the solar system;	FOSS Next Generation Planetary Science ATE Beyond the Moon – What's Out There?, Investigation 6, Part 1 378-401 ATE Beyond the Moon – Origins, Investigation 6, Part 2, pp. 402-421 ATE The Solar System – Where is the Water?, Investigation 7, Part 3, pp. 461-468 CT The Cosmos in a Nutshell, pp. 67-79 (eBook) [Inv. 6.1] CT A Tour of the Solar System, pp. 86-96 (eBook) [Inv. 7.3] CT Solar System Origin Card Set, Online Activity, fossweb.com [Inv. 6.2]
b)	planets have different sizes and orbit at different distances from the sun;	FOSS Next Generation Planetary Science ATE The Solar System – Where Are the Planets?, Investigation 7, Part 1, pp. 440-448 CT A Tour of the Solar System, pp. 86-96 (eBook) [Inv. 7.3] CT Sun, Planets, and Satellites in the Solar System, p. 135 (eBook)

	FOSS Next Generation Planetary Science
c) gravity contributes to orbital motion;	CT How Earth Got and Held on to Its Moon, pp. 80-85 (eBook) [Inv.6.2]
c) gravity contributes to orbital motion; and	CT A Tour of the Solar System, pp. 86-96 (eBook) [Inv. 7.3]
and	CT Finding Exoplanets (The Wobble Method), pp. 112-113 (eBook) [Inv. 9.2]
	FOSS Next Generation Planetary Science
	ATE Beyond the Moon – Origins, Investigation 6, Part 2, pp. 402-421
d) the understanding of the solar	
system has developed over time.	CT Solar System Origin Card Sort, Online Activity, fossweb.com [Inv. 6.2]
	CT How Earth Got and Held onto Its Moon, pp. 80-85 (eBook) [Inv. 6. 2]
	CT Origin of the Moon and Tides, Online Activity, fossweb.com [Inv. 6.2]

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2018 Grade Six Science Standards of Learning		
STAN	NDARD	Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)
6.3	The student will investigate and understand that there is a relationship between the sun, Earth, and the moon. Key ideas include	This SOL is covered in the Grade 6 FOSS module – <i>Planetary Science</i> .
a)	Earth has unique properties;	FOSS Next Generation Planetary Science ATE Earth as a System – Earth's System, Investigation 1, Part 2, pp. 128-140 ATE The Solar System – Comparing Temperatures and Atmospheres, Investigation 7, Part 2, pp. 449-460 ATE The Solar System – Where is the Water?, Investigation 7, Part 3, pp. 461-468 CT Earth's Systems, pp.3-7 (eBook) [Inv. 1.2] CT Earth Landforms/Satellite Images, pp. 146-153 (eBook) CT A Tour of the Solar System, pp. 86-96 (eBook) [Inv. 7.3] CT Planet Landforms, Images, pp. 154-165 (eBook) [Inv. 7.3] CT Landforms and Search for Water, Online Images, fossweb.com [Inv. 7.3]
b)	the rotation of Earth in relationship to the sun causes day and night;	FOSS Next Generation Planetary Science ATE Earth/Sun Relationship – Day and Night, Investigation 2, Part 1, pp. 170-183 ATE Phases of the Moon – Observed Patterns, Investigation 4, Part 1, pp. 278-289 CT Measuring Time with Calendars, pp. 34-37 (eBook) [Inv. 4.2] CT Day/Night, Online Activity, fossweb.com [Inv. 2.1]

c)	the movement of Earth and the moon in relationship to the sun causes phases of the moon;	FOSS Next Generation Planetary Science ATE Earth as a System – Moon Watch, Investigation 1, Part 3, pp. 141-150 ATE Phases of the Moon – Observed Patterns, Investigation 4, Part 1, pp. 278-289 ATE Phases of the Moon – Moon-Phase Models, Investigation 4, Part 2, pp. 290-299 ATE Phases of the Moon – Moon-Phase Simulation, Investigation 4, Part 3, pp. 300-307 CT Earth's Moon, pp. 42-48 (eBook) [Inv. 4.3]
		CT Moon Orientation, Online Activity, fossweb.com [Inv. 4.1] CT Moon Puzzle, Online Activities, fossweob.com [Inv. 4.2] CT Phases of the Moon Simulation, Online Activity, fossweb.com [Inv. 4.3]
d)	Earth's tilt as it revolves around the sun causes the seasons; and	FOSS Next Generation Planetary Science ATE Earth/Sun Relationship – Day and Night, Investigation 2, Part 1, pp. 170-183 ATE Earth/Sun Relationship – Summer Heat, Investigation 2, Part 2, pp. 184-194 ATE Earth/Sun Relationship – Day Length, Investigation 2, Part 3, pp. 195-221 CT Seasons on Earth, pp. 15-21 (eBook) [Inv. 2.3] CT Day/Night Simulation, Online Activity, fossweb.com [Inv. 2.1] CT Seasons, Online Activity, fossweb.com [Inv. 2.3]
e)	the relationship between Earth and the moon is the primary cause of tides.	FOSS Next Generation <i>Planetary Science</i> ATE Beyond the Moon – Origins, Investigation 6, Part 2, pp. 402-421 CT How Earth Got and Held onto Its Moon, pp. 80-85 (eBook) [Inv. 6.2] CT Tides, Online Activity, fossweb.com [Inv. 6.2]

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	2018 Grade Six Science Standards of Learning	
STAN	STANDARD Correlation: Must address both the standards and the curriculum framework. Use page and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more correlations.)	
6.4	The student will investigate and understand that there are basic sources of energy and that energy can be transformed. Key ideas include	This SOL is covered in the Grade 6 FOSS module – Weather and Water.
		FOSS Next Generation Weather and Water
a)	the sun is important in the formation of most energy sources on Earth;	ATE Climate Over Time – The Role of Carbon Dioxide, Investigation 9, Part 2, pp. 623-642 ATE Climate Over Time – AVA 6.E: Energy Budget and Use, Inv. 9 Part 2 (after step 14), pp. 13-2
		CT Renewable and Nonrenewable Energy Sources, pp. 15-22 (AVA 6.E) [Inv. 9.2]
b)	Earth's energy budget relates to living systems and Earth's processes;	FOSS Next Generation Weather and Water ATE Climate Over Time – The Role of Carbon Dioxide, Investigation 9, Part 2, pp. 623-642 ATE Climate Over Time – AVA 6.E: Energy Budget and Use, Inv. 9 Part 2 (after step 14), pp. 13-2
		CT Renewable and Nonrenewable Energy Sources, pp. 15-22 (AVA 6.E) [Inv. 9.2]
c)	radiation, conduction, and convection distribute energy; and	FOSS Next Generation Weather and Water ATE Convection—Investigation 3, Parts 2-3, pp. 264-295 ATE Forces—Investigation 4, Parts 2-3, pp. 323-358 ATE Conduction—Fluid Conduction, Investigation 5, Part 1, pp. 374-387

	ATE Climate Over Time – AVA 6.E: Energy Budget and Use, Inv. 9 Part 2 (after
	step 14), pp. 13-2
	CT Convection, pp. 51-52 (eBook) [Inv. 3.3]
	CT Heating the Atmosphere, pp. 69-75 (eBook) [Inv. 6.1]
	CT Wind on Earth, pp. 76-84 (eBook) [Inv. 6.3]
	CT Energy Transfer: Conduction, Radiation, Convection, Online Activity,
	fossweb.com [Inv. 5.1]
	FOSS Next Generation Weather and Water
	ATE Climate Over Time – The Role of Carbon Dioxide, Investigation 9, Part 2, pp.
d) energy transformations are	623-642
important in energy usage.	ATE Climate Over Time – AVA 6.E: Energy Budget and Use, Inv. 9 Part 2 (after
important in energy usage.	step 14), pp. 13-2
	CT Renewable and Nonrenewable Energy Sources, pp. 15-22 (AVA 6.E) [Inv. 9.2]

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	2018 Kindergarten Science Standards of Learning		
STAN	DARD	Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)	
6.5	The student will investigate and understand that all matter is composed of atoms. Key ideas include	This SOL is covered in the Grade 6 FOSS module – <i>Weather and Water</i> .	
a)	atoms consist of particles, including electrons, protons, and neutrons;	FOSS Next Generation Weather and Water ATE Atoms and Molecules, Investigation 1, Part 3, pp. 158-177 ATE What is the Weather? - AVA 6.B: Atoms and Molecules, Inv. 1, Part 3 (after step 11), pp. 6-8 CT Atoms and Molecules, Online Video, Investigation 1, Part 3	
b)	atoms of a particular element are similar but differ from atoms of other elements;	FOSS Next Generation Weather and Water ATE Atoms and Molecules, Investigation 1, Part 3, pp. 158-177 ATE What is the Weather? - AVA 6.B: Atoms and Molecules, Inv. 1, Part 3 (after step 11), pp. 6-8 CT Atoms and Molecules, Online Video, Investigation 1, Part 3	
c)	elements may be represented by chemical symbols;	FOSS Next Generation Weather and Water ATE Atoms and Molecules, Investigation 1, Part 3, pp. 158-177 ATE What is the Weather? - AVA 6.B: Atoms and Molecules, Inv. 1, Part 3 (after step 11), pp. 6-8 CT Atoms and Molecules, Online Video, fossweb.com [Inv. 1.3]	

d)	two or more atoms interact to form new substances, which are held together by electrical forces (bonds);	FOSS Next Generation Weather and Water ATE Atoms and Molecules, Investigation 1, Part 3, pp. 158-177 ATE What is the Weather? - AVA 6.B: Atoms and Molecules, Inv. 1, Part 3 (after step 11), pp. 6-8 CT Atoms and Molecules, Online Video, fossweb.com [Inv. 1.3]
e)	compounds may be represented by chemical formulas;	FOSS Next Generation Weather and Water ATE Atoms and Molecules, Investigation 1, Part 3, pp. 158-177 ATE What is the Weather? - AVA 6.B: Atoms and Molecules, Inv. 1, Part 3 (after step 11), pp. 6-8 CT Atoms and Molecules, Online Video, fossweb.com [Inv. 1.3]
f)	chemical equations can be used to model chemical changes; and	FOSS Next Generation Weather and Water ATE Atoms and Molecules, Investigation 1, Part 3, pp. 158-177 ATE What is the Weather? - AVA 6.B: Atoms and Molecules, Inv. 1, Part 3 (after step 11), pp. 6-8 CT Atoms and Molecules, Online Video, fossweb.com [Inv. 1.3]
g)	a few elements comprise the largest portion of the solid Earth, living matter, the oceans, and the atmosphere.	FOSS Next Generation Weather and Water ATE What is Weather – Earth's Atmosphere, Investigation 1, Part 3, pp. 158-177 ATE What is the Weather? - AVA 6.B: Atoms and Molecules, Inv. 1, Part 3 (after step 11), pp. 6-8 CT What's in the Air?, pp. 18-23 (eBook) [Inv. 1.3]

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	2018 Grade Six Science Standards of Learning	
STAN	IDARD	Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)
6.6	The student will investigate and understand that water has unique physical properties and has a role in the natural and human-made environment. Key ideas include	This SOL is covered in the Grade 6 FOSS modules – <i>Planetary Science</i> and <i>Weather and Water</i> .
a)	water is referred to as the universal solvent;	FOSS Next Generation Planetary Science CT Stormwater Runoff, Video, fossweb.com [AVA: 6.F] CT Sediment, Video, fossweb.com [AVA: 6.F] CT Testing for Bacteria in Virginia, fossweb.com [AVA: 6.F]
b)	water has specific properties;	FOSS Next Generation Weather and Water ATE Water in the Air – Is Water Really There, Investigation 7, Part 1, pp. 498-506 ATE Water in the Air – Phase Change and Energy Transfer, Investigation 7, Part 2, pp. 507-515 ATE Water in the Air – Clouds and Precipitation, Investigation 7, Part 3, pp. 516-530 CT Animal Rains, pp, 87-90, (eBook) [Inv. 7.3] CT Particles in Solids, Liquids, and Gases Simulation, Online Activity, fossweb.com [Inv. 5.1]
c)	thermal energy has a role in phase changes;	FOSS Next Generation Weather and Water ATE Radiation – Heating the Earth, Investigation 4, Part 3, pp. 340-358

d) water has a role in weathering;	FOSS Next Generation Planetary Science ATE The Solar System – AVA 6.F: Chesapeake Bay Watershed, Inv. 7, Part 4 (after), pp. 23-24
e) large bodies of water moderate climate; and	FOSS Next Generation Weather and Water ATE The Water Planet – AVA 6.D: Virginia Climate Data, Inv. 8, Part 3 (during step 4), pp. 10-12 ATE Radiation – Latitude, Investigation 4, Part 1, pp. 312-322 ATE Radiation – Heating Earth, Investigation 4, Part 3, pp. 340-358 ATE The Water Planet – Ocean Climate, Investigation 8, Part 3, pp. 581-595 CT Wind on Earth, pp. 76-84, (eBook) [Inv. 6. 3] CT Oceans Currents and Gyres, pp. 96-102 (eBook) [Inv. 8. 2] CT El Nino, pp. 103-104, (eBook) [Inv. 8.3]
f) water is important for agriculture, power generation, and public health.	FOSS Next Generation Weather and Water CT Oceans Currents and Gyres, pp. 96-102 (eBook) [Inv. 8.2] FOSS Next Generation Planetary Science ATE The Solar System – Changing Systems, Investigation 7, Part 4, pp. 469-489 CT Earth's Changing Systems, pp. 97-104, (eBook) [Inv. 7.4] CT Stormwater Runoff, Video, fossweb.com [AVA: 6.F] CT Sediment, Video, fossweb.com [AVA: 6.F] CT Testing for Bacteria in Virginia, fossweb.com [AVA: 6.F] CT FOSS Virginia Watershed Study Center, Online Resource, fossweb.com [AVA 6.F]

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	2018 Grade Six Science Standards of Learning	
STAN	IDARD	Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)
6.7	The student will investigate and understand that air has properties and that Earth's atmosphere has structure and is dynamic. Key ideas include	This SOL is covered in the Grade 6 FOSS module – Weather and Water
a)	air is a mixture of gaseous elements and compounds;	FOSS Next Generation Weather and Water ACT What is Weather – The Air Around Us, Investigation 1, Part 2, pp. 142-157 CT What's in the Air, pp. 18-23 (eBook) [Inv. 1.3] CT Gas in a Syringe, Online Activity, fossweb.com [Inv. 1.2]
b)	the atmosphere has physical characteristics;	FOSS Next Generation Weather and Water ATE What is Weather – Earth's Atmosphere, Investigation 1, Part 3, pp. 158-177 ATE Water in the Air – Clouds and Precipitation, Investigation 7, Part 3, pp. 516-530 CT A Thin Blue Veil, pp. 24-31 (eBook) [Inv. 1.3] CT Heating the Atmosphere, pp. 69-75, (eBook) [Inv. 6.1] CT Animal Rains, pp. 87-90, (eBook) [Inv. 7.3] CT Weather Balloons and the Radiosonde, pp. 85-86, (eBook) [Inv. 7.3] CT Elevator to Space Simulation, Online Activity, fossweb.com [Inv. 1.3]

c) properties of the atmosphere change with altitude;	FOSS Next Generation Weather and Water ATE What is Weather – Earth's Atmosphere, Investigation 1, Part 3, pp. 158-177 ATE Air Flow – Atmospheric Heating, Investigation 6, Part 1, pp. 434-448 ATE Air Flow – Local Winds, Investigation 6, Part 2, pp.449-456 ATE Air Flow – Global Winds, Investigation 6, Part 3, pp. 457-481 CT A Thin Blue Veil, pp. 24-31 (eBook) [Inv. 1.3] CT Heating the Atmosphere, pp. 69-75, (eBook) [Inv. 6.1] CT Weather Balloon Launch, Simulation, Multimedia, fossweb.com [Inv. 2.1] CT Elevator to Space Simulation, Online Activity, fossweb.com [Inv. 1.3]
d) there is a relationship between air movement, thermal energy, and weather conditions;	FOSS Next Generation Weather and Water ATE What is Weather? – Into the Weather, Investigation 1, Part 1, pp. 128-141 ATE Air Flow – Local Winds, Investigation 6, Part 2, pp.449-456 ATE Air Flow – Global Winds, Investigation 6, Part 3, pp. 457-481 CT Severe Weather, pp. 2-7 (eBook) [Inv. 1.1] CT Hurricanes and Tornadoes, Video, fossweb.com [Inv. 1.1] CT Weather Maps, Simulation, Multimedia, fossweb.com [Inv. 10.1] CT Local Wind, Online Activity, fossweb.com [Inv. 6.2] CT Wind on Earth, pp. 76-84 (eBook) [Inv. 6.3]
e) atmospheric measures are used to predict weather conditions; and	FOSS Next Generation Weather and Water ATE Air Pressure and Wind – Air-Pressure Inquiry, Investigation 2, Part 1, pp. 198-219 ATE Meteorology – Weather Maps, Investigation 10, Part 1, pp. 670-682 ATE Meteorology – Weather Maps, Investigation 10, Part 1, pp. 670-682 CT Gas in a Syringe/Weather-Balloon Simulation, Multimedia, fossweb.com [Inv. 2.1] CT What is Air Pressure?, pp. 32-40 (eBook) Investigation 2, Part 1 CT Barometer in a Bottle, Online Video, fossweb.com [Inv. 2.1]

	FOSS Next Generation Weather and Water
f) weather maps give basic	ATE Air Pressure and Wind, Investigation 2, Part 2, pp. 220-229
information about fronts, systems,	ATE Meteorology – Weather Maps, Investigation 10, Part 1, pp. 670-682
and weather measurements.	
	CT <i>Fronts</i> , pp. 132-133 (eBook)
	CT Weather Maps Simulation, Online Activity, fossweb.com [Inv. 10.1]

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2018 Grade Six Science Standards of Learning		
STANDARD	Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)	
6.8 The student will investigate and understand that land and water have roles in watershed systems. Key ideas include	This SOL is covered in the Grade 6 FOSS modules – Weather and Water and Planetary Science.	
a watershed is composed of the land that drains into a body of water;	FOSS Next Generation Weather and Water ATE The Water Planet – AVA 6.C: Watershed Introduction, Inv. 8, Part 1 (after step 14), p. 9 (Note: This is foundational for VA SOL 6.9 a-f) FOSS Next Generation Planetary Science ATE The Solar System – AVA 6.F: Chesapeake Bay Watershed, Inv. 7, Part 4 (after), pp. 23-24 CT Watershed Learning Video, Video, fossweb.com [AVA: 6:F] CT FOSS Virginia Watershed Study Center, Online Resource, fossweb.com [AVA 6.F] CT Restoring the Chesapeake Bay Watershed, Online video, fossweb.com [AVA 6.F] CT Population Growth, Online video, fossweb.com [AVA 6.F] CT Intro to Watersheds and Water Pollution (Groundswell), Online video,	

	CT Managing Excess Nutrients (Groundswell), Online video, fossweb.com [AVA	
	6.F]	
	CT Water Sample Data Map, Online Activity, fossweb.com [AVA 6.F]	
	FOSS Next Generation Planetary Science	
b) Virginia is composed of multiple watershed systems which have	ATE The Solar System – AVA 6.F: Chesapeake Bay Watershed, Inv. 7, Part 4 (after), pp. 23-24	
specific features;	CT Watershed Learning Video, Video, fossweb.com [AVA: 6:F]	
	CT FOSS Chesapeake Bay Watershed Study Center, Online Resource, [AVA: 6:F]	
	FOSS Next Generation Planetary Science	
c) the Chesapeake Bay is an estuary	ATE The Solar System – AVA 6.F: Chesapeake Bay Watershed, Inv. 7, Part 4 (after), pp. 23-24	
that has many important functions; and	CT FOSS Chesapeake Bay Watershed Study Center, Online Resource, [AVA: 6:F] CT FOSS Virginia Watershed Study Center, Online Resource, fossweb.com [AVA 6.F] CT Water Sample Data Map, Online Activity, fossweb.com [AVA 6.F]	
	FOSS Next Generation Weather and Water	
	ATE The Water Planet – AVA 6.C: Watershed Introduction, Inv. 8, Part 1 (after step 14), p.	
	(Note: This is foundational for VA SOL 6.9 a-f)	
d) natural processes, human activities,	FOSS Next Generation Planetary Science	
and biotic and abiotic factors influence the health of a watershed	ATE The Solar System – AVA 6.F: Chesapeake Bay Watershed, Inv. 7, Part 4 (after), pp. 23-24	
system.	CT Watershed Learning Video, Video, fossweb.com [AVA: 6:F]	
	CT FOSS Virginia Watershed Study Center, Online Resource, fossweb.com [AVA 6.F]	
	CT Restoring the Chesapeake Bay Watershed, Online video, fossweb.com [AVA 6.F]	
	CT Population Growth, Online video, fossweb.com [AVA 6.F]	

CT Intro to Watersheds and Water Pollution (Groundswell), Online video,
fossweb.com [AVA 6.F]
CT Managing Excess Nutrients (Groundswell), Online video, fossweb.com [AVA
6.F]
CT FOSS Virginia Watershed Study Center, Online Resource, fossweb.com [AVA
6.F]
CT Water Sample Data Map, Online Activity, fossweb.com [AVA 6.F]

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2018 Grade Six Science Standards of Learning	
STANDARD	Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)
6.9 The student will investigate and understand that humans impact the environment and individuals can influence public policy decisions related to energy and the environment. Key ideas include	This SOL is covered in the Grade 6 FOSS modules – <i>Variables and Design</i> , <i>Weather and Water</i> , and <i>Planetary Science</i> .
a) natural resources are important to protect and maintain;	FOSS Next Generation Variables and Design ATE Real-World Problems – AVA 6.A: Environmental Engineering, Inv. 3, Part 1 (after step 4), pp. 4-5 (Note: This is foundational for VA SOL 6.9 a-f) FOSS NEXT GENERATION Weather and Water ATE Climate Over Time – AVA 6.E: Energy Budget and Use, Inv. 9 Part 2 (after step 14), pp. 13-22 (Note: This is foundational for VA SOL 6.9 a-f) FOSS Next Generation Planetary Science ATE The Solar System – AVA 6.F: Chesapeake Bay Watershed, Investigation 7, Part 4 (after), pp. 23-24 ATE The Solar System – Changing Systems, Investigation 7, Part 4, pp. 469-489 CT Earth's Changing Systems, (eBook) pp. 97-104, Investigation 7 Part 4 CT Watershed Learning Video, Video, fossweb.com [AVA: 6.F]

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	CT FOSS Virginia Watershed Study Center, Online Resource, fossweb.com [AVA
	6.F]
	CT Restoring the Chesapeake Bay Watershed, Online video, fossweb.com [AVA 6.F]
	CT Population Growth, Online video, fossweb.com [AVA 6.F]
	CT Intro to Watersheds and Water Pollution (Groundswell), Online video,
	fossweb.com [AVA 6.F]
	CT Managing Excess Nutrients (Groundswell), Online video, fossweb.com [AVA
	6.F]
	CT FOSS Virginia Watershed Study Center, Online Resource, fossweb.com [AVA
	6.F]
	FOSS Next Generation Variables and Design
	ATE Real-World Problems – AVA 6.A: Environmental Engineering, Inv. 3, Part 1
	(after step 4), pp. 4-5
	(Note: This is foundational for VA SOL 6.9 a-f)
	(Note: This is foundational for VA SOL 0.9 a-1)
	FOSS Next Generation Weather and Water
	ATE Climate Over Time – The Role of Carbon Dioxide, Investigation 9, Part 2, pp.
	, and the second
	623-642
1) 11 1	ATE The Solar System – Changing Systems, Investigation 7, Part 4, pp. 469-489
b) renewable and nonrenewable	
resources can be managed;	ATE Climate Over Time – AVA 6.E: Energy Budget and Use, Inv. 9 Part 2 (after
	step 14), pp. 13-22
	(Note: This is foundational for VA SOL 6.9 a-f)
	CT Climates: Past, Present, and Future, pp. 105-110, (eBook), [Inv. 9.2]
	CT Earth's Changing Systems, (eBook) pp. 97-104, Investigation 7 Part 4
	FOSS Next Generation Planetary Science
	ATE The Solar System – AVA 6.F: Chesapeake Bay Watershed, Investigation 7, Part
	4 (after), pp. 23-24

c) major health and safety issues are associated with air and water quality;	FOSS Next Generation Variables and Design ATE Real-World Problems – AVA 6.A: Environmental Engineering, Inv. 3, Part 1 (after step 4), pp. 4-5 (Note: This is foundational for VA SOL 6.9 a-f) FOSS Next Generation Weather and Water ATE The Solar System – Changing Systems, Investigation 7, Part 4, pp. 469-489 ATE Climate Over Time – AVA 6.E: Energy Budget and Use, Inv. 9 Part 2 (after step 14), pp. 13-22 (Note: This is foundational for VA SOL 6.9 a-f) FOSS Next Generation Planetary Science ATE The Solar System – AVA 6.F: Chesapeake Bay Watershed, Investigation 7, Part 4 (after), pp. 23-24 CT Earth's Changing Systems, (eBook) pp. 97-104, Investigation 7 Part 4 CT Stormwater Runoff, Video, fossweb.com [AVA: 6.F] CT Sediment, Video, fossweb.com [AVA: 6.F] CT Testing for Bacteria in Virginia, fossweb.com [AVA: 6.F]
d) major health and safety issues are related to different forms of energy;	FOSS Next Generation Variables and Design ATE Real-World Problems – AVA 6.A: Environmental Engineering, Inv. 3, Part 1 (after step 4), pp. 4-5 (Note: This is foundational for VA SOL 6.9 a-f) FOSS NEXT GENERATION Weather and Water ATE Climate Over Time – AVA 6.E: Energy Budget and Use, Inv. 9 Part 2 (after step 14), pp. 13-22 (Note: This is foundational for VA SOL 6.9 a-f) FOSS Next Generation Planetary Science ATE The Solar System – AVA 6.F: Chesapeake Bay Watershed, Investigation 7, Part 4 (after), pp. 23-24

e) preventive measures can protect land-use and reduce environmental hazards; and	ATE Climate Over Time – The Role of Carbon Dioxide, Investigation 9, Part 2, pp. 623-642 CT Climates: Past, Present, and Future, pp. 105-110, (eBook), [Inv. 9.2] FOSS Next Generation Variables and Design ATE Real-World Problems – AVA 6.A: Environmental Engineering, Inv. 3, Part 1 (after step 4), pp. 4-5 (Note: This is foundational for VA SOL 6.9 a-f) FOSS NEXT GENERATION Weather and Water ATE Climate Over Time – AVA 6.E: Energy Budget and Use, Inv. 9 Part 2 (after step 14), pp. 13-22 (Note: This is foundational for VA SOL 6.9 a-f) FOSS Next Generation Planetary Science ATE The Solar System – AVA 6.F: Chesapeake Bay Watershed, Investigation 7, Part 4 (after), pp. 23-24 CT Water Sample Data Map, Online Activity, fossweb.com [AVA 6.F] CT Forest Buffers, Online Video, fossweb.com [AVA 6.F] CT FOSS Virginia Watershed Study Center, Online Resource, fossweb.com [AVA 6.F]
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	FOSS Next Generation Variables and Design ATE Real-World Problems – AVA 6.A: Environmental Engineering, Inv. 3, Part 1 (after step 4), pp. 4-5 (Note: This is foundational for VA SOL 6.9 a-f)
f) there are cost/benefit tradeoffs in conservation policies.	FOSS NEXT GENERATION Weather and Water ATE Climate Over Time – AVA 6.E: Energy Budget and Use, Inv. 9 Part 2 (after step 14), pp. 13-22 (Note: This is foundational for VA SOL 6.9 a-f)
	FOSS Next Generation <i>Planetary Science</i> ATE The Solar System – AVA 6.F: Chesapeake Bay Watershed, Investigation 7, Part 4 (after), pp. 23-24
	CT FOSS Virginia Watershed Study Center, Online Resource, fossweb.com [AVA 6.F]

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	2018 Life Science Standards of Learning		
STAN	NDARD	Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)	
LS.2	The student will investigate and understand that all living things are composed of one or more cells that support life processes, as described by the cell theory. Key ideas include\	This SOL is covered in the Life Science FOSS modules — <i>Diversity of Life</i> and <i>Heredity and Adaptations</i> .	
a)	the development of the cell theory demonstrates the nature of science;	FOSS Next Generation Diversity of Life ATE The Microscope – Meet the Microscope, Investigation 2, Part 1, pp. 170-183 ATE The Microscope – Microscope Life, Investigation 2, Part 3, pp. 194-205 ATE The Cell – Discovering Cells, Investigation 3, Part 1, pp. 224-235 CT Lab Techniques: Making a Wet Mount, Video, fossweb.com [Inv. 2.1] CT Virtual Microscope, Online Activity, fossweb.com [Inv. 2.1] CT Levels of Complexity: Plant Cell, Online Activity, fossweb.com [Inv. 3.1] CT Microscope Measurements, Online Activity, fossweb.com [Inv. 2.2]	

		FOSS Next Generation Diversity of Life
		ATE The Microscope – Microscope Life, Investigation 2, Part 3, pp. 194-205
		ATE The Cell – Investigation 3, Parts 1-4, pp. 224-264
		ATE Plants: The Vascular System – Transpiration and Photosynthesis, Inv. 5, Part 3,
		pp. 414-433
b)	cell structure and organelles	
	support life processes;	CT The Amazing Paramecium, pp. 14-19 (eBook) [Inv. 3.2]
		CT <i>Cells</i> , pp. 20-27 (eBook) [Inv. 3.4]
		CT <i>How Big Are Cells?</i> , pp. 110-113 [Inv. 3.4]
		CT Bacteria around Us, pp. 28-35 (eBook) [Inv. 4.2]
		CT Levels of Complexity Research Pages, pp. 114-118 (eBook) [Inv. 4.1]
		FOSS Next Generation Diversity of Life
		ATE The Cell – Discovering Cells, Investigation 3, Part 1, pp. 224-235
	1 11 12 1 11 12 1 1	ATE The Cell – Human Cheek Tissue, Investigation 3, Part 4, pp. 259-279
c)		, , , , , , , , , , , , , , , , , , , ,
	how they support life processes;	CT Levels of Complexity: Plant Cell, Online Resource, fossweb.com [Inv. 3.1]
		_ · · · · · · · · · · · · · · · · · · ·
	cell division is the mechanism for growth and reproduction; and	
		· ·
		1
		CT The Making of a New Plant, pp. 62-64 (eBook), [Inv. 6.3]
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		FOSS Next Generation Heredity and Adaptations
		CT Understanding Heredity, pp. 22-27 (eBook) [Inv. 2.2]
	plant and animal cells determine how they support life processes; cell division is the mechanism for	CT Levels of Complexity: Plant Cell, Online Resource, fossweb.com [Inv. 3.1] CT Cells, pp. 20-27 (eBook) [Inv. 3.4] CT How Big Are Cells?, pp. 110-113 [Inv. 3.4] FOSS Next Generation Diversity of Life ATE The Microscope – Microscope Life, Investigation 2, Part 3, pp. 194-205 ATE The Cell – Microworlds, Investigation 3, Part 3, pp.251-259 ATE Plant Reproduction and Growth – Flowering Plant Production, pp. 475-489, Inv. 6, Part 3 CT The Making of a New Plant, pp. 62-64 (eBook), [Inv. 6.3] CT Nonflowering Plants, Online Slideshow, fossweb.com [Inv. 6.3] CT Viruses: Living or Nonliving?, pp. 95-100 (eBook), [Inv. 9.2] FOSS Next Generation Heredity and Adaptations ATE Heredity – Inheriting Traits, Investigation 2, Part 2, pp.176-199

e) cellular transport (osmosis and diffusion) is important for life processes.	FOSS Next Generation Diversity of Life. ATE Plants: The Vascular System — What happened to the Water?, Inv. 5, Part 1, pp. 390-401 ATE Plants: The Vascular System — Looking at Plant Structures, Inv. 5, Part 2, pp. 402-414 ATE Plants: The Vascular System — Looking at Plant Structures, Inv. 5, Part 3, pp. 415-433 CT The Water-Conservation Problem, pp. 44-49 (eBook) [Inv. 5.2] CT Water, Light, and Energy, pp. 50-57 (eBook) [Inv. 5.3] CT Database: Stem Collector, Online Resource, fossweb.com [Inv. 5.2]
	CT Database: Stem Collector, Online Resource, fossweb.com [Inv. 5.2] CT Database: Stomata Collection, Online Resource, fossweb.com [Inv. 5.2]

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	2018 Life Standards of Learning		
STAN	IDARD	Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)	
LS.3	The student will investigate and understand that there are levels of structural organization in living things. Key ideas include	This SOL is covered in the Life Science FOSS module – <i>Diversity of Life</i> .	
a)	patterns of cellular organization support life processes;	FOSS Next Generation Diversity of Life ATE Domains – Comparing Living Things, Investigation 4, Part 1, pp. 300-318 ATE Domains – Bacteria, Investigation 4, Part 2, pp. 319-347 ATE Domains – Fungi, Investigation 4, Part 3, pp. 348-361 ATE Domains – Archaea: The Three Domains, Investigation 4, Part 4, pp. 362-373 CT Levels of Complexity Research Pages, pp. 114-118 (eBook) [Inv. 4.1] CT Levels of Complexity Card Sort, Online Activity, fossweb.com [Inv.4.1] CT Levels of Complexity: Bacterial Cell, Online Activity, fossweb.com [Inv. 4.2] CT Database: Levels of Complexity, Online Resource, fossweb.com [Inv. 8.2]	
b)	unicellular and multicellular organisms have comparative structures; and	FOSS Next Generation Diversity of Life ATE The Cell – Paramecia, Investigation 3, Part 2, pp. 238-250 ATE The Cell – Microworlds, Investigation 3, Part 3, pp. 251-258 ATE Domains – Bacteria, Investigation 4, Part 2, pp. 319-347 ATE Domains – Fungi, Investigation 4, Part 3, pp. 348-361 ATE Domains – Archaea: The Three Domains, Investigation 4, Part 4, pp. 362-373	

	CT Lab Techniques: Preparing a Paramecia Wet-Mount Slide, Video, fossweb.com
	[Inv. 3.1]
	CT Database: Paramecium 3, 4, and 5, Online Resource, fossweb.com [Inv. 3, Part
	2]
	CT Levels of Complexity: Protist Cell, Online Resource, fossweb.com [Inv. 3, Part 2]
	FOSS Next Generation Diversity of Life
	ATE Domains –Investigation 4, Parts 1-4, pp. 300-373,
	CT Levels of Complexity Card Sort, Online Activity, fossweb.com [Inv. 4.1]
c) similar characteristics determine	CT Levels of Complexity: Bacteria Cell, Online Resource, fossweb.com [Inv. 4.2]
the classification of organisms.	CT Levels of Complexity: Fungal Cell, Online Resource, fossweb.com [Inv. 4.3]
	CT Archaea Family Album, Online Science Resource, fossweb.com [Inv. 4.4]
	CT Levels of Complexity: Archaean Cell/The Three Domains of Life, Online
	Resources, fossweb.com [Inv. 4.4]
	CT Classification History, Online Slideshow, fossweb.com [Inv. 4.4]

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	2018 Life Science Standards of Learning		
STAN	IDARD	Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)	
LS.4	The student will investigate and understand that there are chemical processes of energy transfer which are important for life. Key ideas include	This SOL is covered in the Life Science FOSS modules —Diversity of Life and Populations and Ecosystems.	
a)	photosynthesis is the foundation of virtually all food webs; and	FOSS Next Generation Diversity of Life ATE Plants: The Vascular System – Transpiration and Photosynthesis, Inv. 5, Part 3, pp. 414-433 CT Water, Light, and Energy, pp. 50-57 (eBook) [Inv.5.3] FOSS Next Generation Populations and Ecosystems ATE Producers – Growing Producers, Investigation 5, Part 1, pp. 354-367 ATE Producers – Biomass and Producers, Investigation 5, Part 2, pp. 368-382 ATE Producers – Ecoscenario Producers, Investigation 5, Part 3, pp. 383-387 ATE Producers – Energy Transfer from Food, Investigation 5, Part 4, pp. 387-405 CT Energy and Life, pp. 51-55 (eBook) [Inv. 5.2] CT Where Does Food Come From?, pp. 56-61 (eBook) [Inv. 5.2]	
b)	photosynthesis and cellular respiration support life processes.	FOSS Next Generation Diversity of Life ATE Plants: The Vascular System, Investigation, 5, Parts 1-3, pp. 390-433 CT Database: Stem Collection, Online Resource, fossweb.com Investigation 5, Part 2	

CT Database: Somata Collection, Online Resource, fossweb.com Investigation 5, Part 2 CT Plant Vascular System, Online Activity, fossweb.com Investigation 5, Part 3 CT Water, Light, and Energy, pp. 50-57 (eBook) [Inv. 5.3]
FOSS Next Generation <i>Populations and Ecosystems</i> ATE <i>Producers – Biomass and Producers</i> , Investigation 5, Part 2, pp. 368-382 ATE <i>Producers – Ecoscenario Producers</i> , Investigations 5, Part 3, pp. 383-387 CT <i>Energy and Life and Where Does Food Come From?</i> pp. 51-55 (eBook) [Inv. 5.2]

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	2018 Life Science Standards of Learning		
STAN	TDARD	Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)	
LS.5	The student will investigate and understand that biotic and abiotic factors affect an ecosystem. Key ideas include	This SOL is covered in the Life Science FOSS modules —Diversity of Life and Populations and Ecosystems.	
a)	matter moves through ecosystems via the carbon, water, and nitrogen cycles;	FOSS Next Generation Populations and Ecosystems ATE Mono Lake – Ecoscenario Food Webs, Investigation 3, Part 3, pp. 272-281 ATE Following the Energy – Decomposers, Investigation 6, Part 4, pp. 470-479 ATE Sorting Out Life - AVA: Chesapeake Bay Ecoscenario, Inv. 2, Part 3, pp. 4-5 CT Life in a Community, pp. 13-15 (eBook) [Inv. 2.1] CT Defining a Biome, pp. 31-34 (eBook) [Inv. 2.3] CT Decomposers, (eBook) pp. 83-86, Investigation 6, Part 4	
b)	energy flow is represented by food webs and energy pyramids; and	FOSS Next Generation Populations and Ecosystems ATE Sorting Out Life – Ecosystem Card Sort, Investigation 2, Part 1, pp. 184-193, ATE Mono Lake – Investigation 3, Parts 2-3, pp. 259-281 ATE Producers – Ecoscenario Producers, Investigation 5, Part 4, pp. 383-387 ATE Following the Energy – Investigation 6, Parts 1-3, pp. 420-449 CT Rachel Carson and the Silent Spring (eBook) pp. 70-74, [Inv. 6.2] CT Trophic Levels, (eBook), pp. 75-82, [Inv. 6.3] CT The Mono Lake Story, Video, fossweb.com [Inv. 3.1] CT Mono Lake Food Web, Video, fossweb.com [Inv. 3.2]	

c) relationships exist among producers, consumers, and	FOSS Next Generation Populations and Ecosystems ATE Following the Energy – Decomposers, pp. 470-479, Investigation 6, Part 4 ATE Human Impact – Biodiversity Investigation 8, Part 1, pp. 562-582 ATE Human Impact – Mono Lake Revisited, Investigation 8, Part 3, 591-605
decomposers.	CT Decomposers, pp. 83-86 (eBook), [Inv. 6.4] CT Biodiversity, pp. 100-107 (eBook) [Inv. 8.1] CT Mono Lake in the Spotlight, (eBook) pp. 118-122, Investigation 8, Part 3

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	2018 Life Science Standards of Learning		
STAN	NDARD	Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)	
LS.6	The student will investigate and understand that populations in a biological community interact and are interdependent. Key ideas include	This SOL is covered in the Life Science FOSS modules – <i>Populations and Ecosystems</i> .	
a)	relationships exist between predators and prey and these relationships are modeled in food webs;	FOSS Next Generation Populations and Ecosystems ATE Sorting Out Life – Investigation 2, Parts 1-3, pp. 184-226 ATE Mono Lake – Mono Lake Food Web, Investigation 3, Part 2 pp. ////// ATE Mono Lake – Ecoscenario Food Webs, Investigation 3, Part 3, pp. 272-281 ATE Population Size – Population Dynamics, Investigation 7, Part 3, pp. 529-544 CT Life in a Community, pp. 13-15 (eBook) [Inv. 2.1] CT Mono Lake throughout the Year, pp. 97-99 (eBook) [Inv. 7.3] CT Food Web, Online Activity, fossweb.com [Inv. 3.3] CT Mono Lake Date, Online Resource, fossweb.com [Inv. 7.3]	
b)	the availability and use of resources may lead to competition and cooperation;	FOSS Next Generation Populations and Ecosystems ATE Milkweed Bugs – Observing Milkweed Bug Habitats, Investigation 1, Part 3, pp. 148-159 ATE Population Size – Investigation 7, Parts 1-3, pp. ATE Human Impact – Investigation 8, Parts 1-3, pp. CT Milkweed Bugs, (eBook) pp. 7-12, [Inv. 1.3] CT Limiting Factors, pp. 87-96 (eBook) [Inv. 7.2]	

	CT Biodiversity, pp. 100-107 (eBook) [Inv. 8.1]
	CT Invasive Species, pp. 108-117 (eBook), [Inv. 8.2]
	CT Hawaii: Strangers in Paradise, Online Video, fossweb.com [Inv. 8.2]
	FOSS Next Generation Populations and Ecosystems
	ATE Sorting Out Life - AVA: Chesapeake Bay Ecoscenario, Investigation. 2, Part 3,
	pp. 4-5
	ATE Mono Lake – Mono Lake Food Web, Investigation 3, Part 2, pp. 259-271
c) symbiotic relationships support the	ATE Mono Lake – Mono Lake Food Web, Investigation 3, Part 3, pp. 272-281,
survival of different species; and	ATE Minihabitats – Introducing Life, Investigation 4, Part 2, pp. 310-323
	ATE Minihabitats – Observing Minihabitats, Investigation 4, Part 3, pp. 324-334
	CT Food Web, Online Activity, fossweb.com [Inv 3.3].
	CT Minihabitat Organisms, Online Resource, fossweb.com [Inv. 4.2]
	FOSS Next Generation Populations and Ecosystems
	ATE Milkweed Bugs – Investigation 1, Parts 1-2, pp. 116-147
	ATE Milkweed Bugs – Observing Milkweed Bug Habitats, Investigation 1, Part 3, pp.
	148-159
	ATE Sorting Out Life - AVA: Chesapeake Bay Ecoscenario, Investigatin. 2, Part 3,
d) the niche of each organism	pp. 4-5
,	ATE Mono Lake – Mono Lake Food Web, Investigation 3, Part 3, pp. 272-281,
supports survival.	
	CT Observations and Inferences, pp. 3-6 (eBook) [Inv. 1.2]
	CT Milkweed Bugs, pp. 7-12 (eBook) [Inv. 1.3]
	CT Hawaii: Strangers in Paradise, Online Video, fossweb.com [Inv. 8.2]
	CT Invasive Species, pp. 108-117 (eBook) [Inv. 8.2]

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	2018 Life Science Standards of Learning	
STAN	DARD	Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)
LS.7	The student will investigate and understand that adaptations support an organism's survival in an ecosystem. Key ideas include	This SOL is covered in the Life Science FOSS modules —Diversity of Life and Populations and Ecosystems.
		FOSS Next Generation Diversity of Life
		ATE Diversity of Life – Bioblitz, Investigation 9, Part 1, pp 604-624
a)	biotic and abiotic factors define land, marine, and freshwater ecosystems; and	FOSS Next Generation Populations and Ecosystems ATE Sorting Out Life – Investigations 2, Parts 1-3, pp. 184-227 ATE Sorting Out Life - AVA: Chesapeake Bay Ecoscenario, Inv. 2, Part 3, pp. 4-5 ATE Minihabitats – The Physical Environment, Investigation 4, Part 1, pp. 298-309 CT Life in a Community, p. 15 (eBook) [Inv. 2.1] CT Defining a Biome, pp. 31-34 (eBook) [Inv. 2.3] CT An Introduction to Mono Lake, pp. 35-40 (eBook) [Inv. 3.1] CT Limiting Factors, pp. 87-96 (eBook) [Inv. 7.2]
b)	physical and behavioral characteristics enable organisms to survive within a specific ecosystem.	FOSS Next Generation Diversity of Life ATE Plant Reproduction and Growth – Lima Bean Dissection, Inv. 6, Part 1, pp. 452-461 FOSS Next Generation Populations and Ecosystems ATE Sorting Out Life – Investigations 2, Parts 1-3, pp. 184-227 ATE Sorting Out Life - AVA: Chesapeake Bay Ecoscenario, Inv. 2, Part 3, pp. 4-5

ATE Minihabitats – The Physical Environment, Investigation 4, Part 1, pp. 298-309 ATE Ecoscenarios, Investigation 9, Parts 1-3, pp. 618-649
CT Ecoscenario Research Center, Online Activity, fossweb.com [Inv. 9.1-2]

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	2018 Life Science Standards of Learning		
STANDARD		Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)	
LS.8	The student will investigate and understand that ecosystems, communities, populations, and organisms are dynamic and change over time. Key ideas include	This SOL is covered in the Life Science FOSS modules —Diversity of Life and Populations and Ecosystems.	
a)	organisms respond to daily, seasonal, and long-term changes;	FOSS Next Generation Diversity of Life ATE Plant Reproduction and Growth – Environmental and Genetic Factors, Inv. 6, Part 2, pp. 462-474 CT Breeding Salt-Tolerant Wheat, pp. 58-61 (eBook) [Inv. 6.2] FOSS Next Generation Populations and Ecosystems ATE Sorting Out Life - AVA: Chesapeake Bay Ecoscenario, Investigation 2, Part 3, pp. 4-5 ATE Producers – Growing Producers, Investigation 5, Part 1, pp. 354-367,	
b)	changes in the environment may increase or decrease population size; and	FOSS Next Generation Populations and Ecosystems ATE Milkweed Bugs – Milkweed-Bug Habitat, Investigation 1, Part 2, pp. 129-147 ATE Sorting Out Life - AVA: Chesapeake Bay Ecoscenario, Investigation. 2, Part 3, pp. 4-5 ATE Population Size – Investigation 7, Parts 1-3, pp. 494-544 ATE Ecoscenarios – Investigation 9, Parts1-3, pp. 618-649	

	CT Milkweed Bugs, Unlimited and Milkweed Bugs, Limited, Online Activity,
	fossweb.com [Inv. 7.1]
	CT Algae and Brine Shrimp Experiments, Online Resource, Investigation 7, Part 2
	CT Limiting Factors, (eBook) pp. 87-96 Investigation 7, Part 2
	CT Ecoscenario Research Center/Understanding the Situation, Online Article,
	fossweb.com [Inv. 9.1]
	FOSS Next Generation Populations and Ecosystems
	ATE Sorting Out Life - AVA: Chesapeake Bay Ecoscenario, Inv. 2, Part 3, pp. 4-5
c) large-scale changes such as	ATE Ecoscenarios – Human Involvement, pp. 618-629, Investigation 9, Part 1
eutrophication, climate changes,	ATE Ecoscenarios – Evaluating Solutions, pp. 630-637, Investigation 9, Part 2
and catastrophic disturbances affect	ATE Ecoscenarios – Presentations, pp. 638-649, Investigation 9, Part 3
ecosystems.	
	CT Ecoscenario Research Center/Understanding the Situation, Online Article,
	fossweb.com [Inv. 9.1]

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	2018 Life Science Standards of Learning		
STANDARD		Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)	
LS.9	The student will investigate and understand that relationships exist between ecosystem dynamics and human activity. Key ideas include	This SOL is covered in the Life Science FOSS modules – <i>Populations and Ecosystems</i> .	
a)	changes in habitat can disturb populations;	FOSS Next Generation Populations and Ecosystems ATE Sorting Out Life - AVA: Chesapeake Bay Ecoscenario, Inv. 2, Part 3, pp. 4-5 ATE Population Size — Limiting Factors, Investigation 7, Part 2, pp. 509-527 ATE Population Size — Population Dynamics, Investigation 7, Part 3, pp. 529-544, ATE Human Impact — Invasive Species, Investigation 8, Part 3, pp. 583-590 CT Mono Lake throughout the Year, (eBook) pp. 97-99, [Inv. 7.3] CT Mono Lake in the Spotlight, (eBook) pp. 118-122, [Inv. 8.3] CT Algae and Brine Shrimp Experiments, Online Resource, fossweb.com [Inv. 7.2] CT Mono Lake Date, Online Resource, fossweb.com [Inv. 7.3]	
b)	disruptions in ecosystems can change species competition; and	FOSS Next Generation Populations and Ecosystems ATE Sorting Out Life - AVA: Chesapeake Bay Ecoscenario, Inv. 2, Part 3, pp. 4-5 ATE Human Impact — Invasive Species, pp. 583-590, Investigation 8, Part 3 ATE Human Impact — Mono Lake Revisited, pp. 591-605, Investigation 8, Part 3 CT Invasive Species, pp. 108-117 (eBook) [Inv. 8.2] CT Mono Lake in the Spotlight, pp. 118-122 (eBook), [Investigation 8.3]	

c) variations in biotic and abiotic factors can change ecosystems.	FOSS Next Generation Populations and Ecosystems ATE Sorting Out Life - AVA: Chesapeake Bay Ecoscenario, Inv. 2, Part 3, pp. 4-5 ATE Human Impact – Invasive Species, pp. 583-590, Investigation 8, Part 3 ATE Human Impact – Mono Lake Revisited, pp. 591-605, Investigation 8, Part 3
	CT Mono Lake in the Spotlight, (eBook) pp. 118-122, Investigation 8, Part 3

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2019 Life Science Standards of Learning		
STANDARD		Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)
u r i	The student will investigate and understand that organisms reproduce and transmit genetic information to new generations. Key ideas include	This SOL is covered in the Life Science FOSS modules —Diversity of Life and Heredity and Adaptations.
	DNA has a role in making proteins that determine organism traits;	FOSS Next Generation Diversity of Life ATE Variation of Traits – Inheriting Traits, Investigation 7, Part 1, pp. 518-531 CT Genes and Heredity, Online Video, fossweb.com [Inv. 7.1] FOSS Next Generation Heredity and Adaptations ATE Heredity – Inheriting Traits, Investigation 2, Part 2, pp. 176-199 CT Heredity, Online Slideshow, fossweb.com [Inv. 2.2]
	the role of meiosis is to transfer traits to the next generation; and	FOSS Next Generation Diversity of Life ATE Plant Reproduction and Growth – Flowering Plant Production, pp. 475-489, Inv. 6, Part 3 CT The Making of a New Plant, pp. 62-64 (eBook), [Inv. 6.3] CT Nonflowering Plants, Online Slideshow, fossweb.com [Inv. 6.3] CT Seeds on the Move, Online Slideshow, fossweb.com [Inv. 6.3]

	FOSS Next Generation Heredity and Adaptations	
	ATE Heredity – Inheriting Traits, pp. 176-199, Investigation 2, Part 2	
	CT Understanding Heredity, pp. 22-27 (eBook) [Inv. 2.2]	
	CT A Larkey Yammer, Online Resource, fossweb.com [Inv. 2.2]	
	CT Heredity, Online Slideshow, fossweb.com [Inv. 2.2]	
	FOSS Next Generation Diversity of Life	
	ATE Variation of Traits – Modeling Heredity, Investigation 7, Part 2, pp. 532-551	
	CT Mendel and Punnett Squares, pp. 73-80 (eBook) [Inv. 7.2]	
	CT Genes and Heredity, Online Video, fossweb.com [Inv. 7.2]	
c) Punnett squares are mathematical		
models used to predict the	FOSS Next Generation Heredity and Adaptations	
probability of traits in offspring.	ATE Heredity – Lines of Decent, Investigation 2, Part 1, pp. 154-175	
	ATE Heredity – Punnett Squares, Investigation 2, Part 4, pp. 209-230	
	CT Mendel and Punnett Squares, pp. 28-35 (eBook) [Inv. 2.4]	
	CT A Model for Predicting Genetic Variation/Larkey Punnett Squares, Online	
	Activity, fossweb.com [Inv. 2.4]	

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	2018 Life Science Standards of Learning		
STANDARD		Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)	
LS.11	The student will investigate and understand that populations of organisms can change over time. Key ideas include	This SOL is covered in the Life Science FOSS module – <i>Heredity and Adaptations</i> .	
	·	FOSS Next Generation Heredity and Adaptations	
		ATE Evolution – Investigation 3, Parts 1-3, pp. 248-307	
		CT Adaptation, (eBook) pp. 41-52, [Inv. 3.1]	
a)	mutation, adaptation, natural	CT Natural Selection, pp. 53-59 (eBook) [Inv. 3.2]	
	selection, and extinction change	CT Influencing Evolution, pp. 84-88 (eBook) [Inv. 3.3]	
	populations;	CT Making of the Fittest: Natural Selection and Adaptation, Online Video,	
		fossweb.com Inv. 3.2]	
		CT Larkey Natural Selection, Online Activity, fossweb.com [Inv. 3.2]	
		CT The Origin of the Species, Online Video, fossweb.com [Inv. 3.2] CT Genetic Technology Resources, Online Resources, fossweb.com [Inv. 3.3]	
		FOSS Next Generation Heredity and Adaptations	
		ATE The History of Life – Investigation 1, Parts 1-2, pp. 88-134	
b)	the fossil record, genetic information, and anatomical comparisons provide evidence for evolution; and	ATE Heredity – Investigation 2, Parts 1-4 pp. 154-230	
		ATE Evolution – Investigation 3, Parts 1-3, pp. 248-307	
		CT Fossil Dating, pp.3-10 (eBook) [Inv. 1.1]	
		CT Mass Extinctions, pp. 73-77 (eBook) [Inv. 1.1]	
		CT Natural Selection, pp. 53-59 (eBook) [Inv. 3.2]	

	CT Biodiversity and Fossils, Online Slideshow, fossweb.com [Inv. 1.1] CT Larkey Natural Selection, Online Activity, fossweb.com [Inv.3.2]
c) environmental factors and genetic	FOSS Next Generation Heredity and Adaptations ATE History of Life – Transitions, Investigation 1 Part 2, pp. 109-134 ATE History of Life – Lines of Decent, Investigation 2, Part 1, pp. 154-175 ATE Heredity – Modeling Heredity, Investigation 2, Part 3, pp. 200-208
variation, influence survivability and diversity of organisms.	CT An Interview with Jennifer Clack, pp. 11-16 (eBook) [Inv. 1.2] CT Transitions, Online Resources, fossweb.com [Inv. 1.2] CT Fish with Fingers, Online Video, fossweb.com [Inv. 1.2] CT The Origin of Tetrapods, Online Video, fossweb.com [Inv. 1.2] CT A Model for Predicting Genetic Variation, Online Activity, fossweb.com [Inv. 2.3]

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	2018 Physical Science Standards of Learning		
STAN	NDARD	Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)	
PS.2	The student will investigate and understand that matter is composed of atoms. Key ideas include	This SOL is covered in Physical Science in FOSS module – <i>Chemical Interactions</i> .	
		FOSS Next Generation Chemical Interactions	
a)	our understanding of atoms has	ATE Particles – Air is Matter, Investigation 3, Part 2, pp. 224-242	
	developed over time;	CT Particles, pp. 24-27(eBook) [Inv. 3.2]	
		FOSS Next Generation Chemical Interactions	
		ATE Air Elements – Periodic Table, Investigation 2, Part 1, pp. 166-184	
		ATE Elements – Elements in the World, Investigation 2, Part 2, pp. 185-199	
b)	the periodic table can be used to		
	predict the chemical and physical	CT Substances on Earth and Elements in the Universe, pp. 13-23 (eBook) [Inv. 2.2]	
	properties of matter; and	CT The Periodic Table of the Elements, Resources, fossweb.com [Inv. 2.1]	
		CT Periodic Table of Elements, Activity, fossweb.com, [Inv. 2.1]	
		CT Element ID Game, Activity, fossweb.com, [Inv. 2.2]	

	FOSS Next Generation Chemical Interactions ATE Particles – Air as Particles, Investigation 3, Part 3, pp. 243-256 ATE Phase Change – Melting Temperature, Investigation 8, Parts 1-4, pp. 482-538
c) the kinetic molecular theory is used to predict and explain matter interactions.	CT Three Phases of Matter, pp. 28-32 (eBook) [Inv. 3.3] CT Heat of Fusion, pp.101-109 (eBook) [Inv. 8.3] CT Particles in Gases, Online Slideshow, fossweb.com, [Inv. 3.3] CT Gas in a Syringe, Online Resource, fossweb.com, [Inv. 3.3] CT Particles in Solids, Liquids, and Gases, Activity, fossweb.com, [Inv. 8.2] CT Hoar Frost, Video, fossweb.com, Inv. 8.4]

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	2018 Physical Science Standards of Learning		
STANDARD		Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)	
PS.3	The student will investigate and understand that matter has properties and is conserved in chemical and physical processes. Key ideas include	This SOL is covered in Physical Science in FOSS module – <i>Chemical Interactions</i> .	
a)	pure substances can be identified based on their chemical and physical properties;	FOSS Next Generation Chemical Interactions ATE Substances - Mystery Mixture, Investigation 1, Part 1 - 2, pp. 118-148 ATE Particles - Capture the Gas, Investigation 3, Part 1, pp. 214-223 ATE Phase Change - Melting Temperature, Investigation 8, Part 1-2, pp. 482-512 ATE Phase Change - Freezing Water, Investigation 8, Part 3-4, pp. 513-538 CT Heat of Fusion, pp.101-109 (eBook), [Inv. 8.3] CT Two-Substance Reactions, Activity, fossweb.com [Inv. 12] CT Particles in Solids, Liquids, and Gases, Activity, fossweb.com [Inv. 8.2] CT Hoar Frost, Video, fossweb.com, [Inv. 8.3]	
b)	pure substances can undergo physical and chemical changes that may result in a change of properties;	FOSS Next Generation Chemical Interactions ATE Substances - Mystery Mixture, Investigation 1, Parts 1-2, pp. 118-148 ATE Solutions - Solubility, Investigation 7, Part 2, pp. 442-465 ATE Reaction - Substance Models, Investigation 9, Part 1, pp. 554-575 CT How things Dissolve and Concentration, pp. 64-88, (eBook) [Inv.7.2] CT Better Living through Chemistry, pp. 110-117, (eBook) [Inv. 9.1] CT Two-Substance Reactions, Activity, fossweb.com [Inv. 1.2]	

	CT Exploring Dissolving, Activity, fossweb.com [Inv. 7.2]	
	CT Compound Structures, Resource, fossweb.com [Inv. 9.1]	
	FOSS Next Generation Chemical Interactions	
c) compounds form through ionic and	ATE Reaction – Substance Models, Investigation 9, Part 1, pp. 554-575	
covalent bonding; and	CT Better Living through Chemistry, pp. 110-117, (eBook) [Inv. 9.1]	
	CT Compound Structures, Resource, fossweb.com [Inv. 9.1]	
	FOSS Next Generation Chemical Interactions	
	ATE Particles – Capture the Gas, Investigation 3, Part 1, pp. 214-223	
d) halanged shaminal equations model	ATE Reaction – Limewater Reaction, Investigation 9, Part 2, pp. 576-605	
d) balanced chemical equations model the conservation of matter.	ATE Reaction – Baking Soda and Acid, Investigation 9, Part 3, pp. 606-622	
	CT Antoine-Laurent Lavoisier and Organic Compounds, pp. 134-147, (eBook) [Inv. 9.3]	

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	2018 Physical Science Standards of Learning		
STANDARD		Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)	
PS.4	The student will investigate and understand that the periodic table is a model used to organize elements based on their atomic structure. Key uses include	This SOL is covered in Physical Science in FOSS module – <i>Chemical Interactions</i> .	
a)	symbols, atomic numbers, atomic mass, chemical groups (families), and periods are identified on the periodic table; and	FOSS Next Generation Chemical Interactions ATE Air Elements – Periodic Table, Investigation 2, Part 1, pp. 166-184 ATE Elements – Elements in the World, Investigation 2, Part 2, pp. 185-199 CT Substances on Earth and Elements in the Universe, pp. 13-23 (eBook) [Inv. 2.1] CT The Periodic Table of the Elements, Resources, fossweb.com [Inv. 2.1] CT Periodic Table of Elements, Activity, fossweb.com, [Inv. 2.1] CT Element ID Game, Activity, fossweb.com, [Inv. 2.2]	
b)	elements are classified as metals, metalloids, and nonmetals.	FOSS Next Generation Chemical Interactions ATE Air Elements – Periodic Table, Investigation 2, Part 1, pp. 166-184 ATE Elements – Elements in the World, Investigation 2, Part 2, pp. 185-199 CT Substances on Earth and Elements in the Universe, pp. 13-23 (eBook) [Inv. 2.1] CT The Periodic Table of the Elements, Resources, fossweb.com [Inv. 2.1] CT Periodic Table of Elements, Activity, fossweb.com, [Inv. 2.1] CT Element ID Game, Activity, fossweb.com, [Inv. 2.2]	

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	2018 Physical Science Standards of Learning			
STANDARD		Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)		
PS.5	The student will investigate and understand that energy is conserved. Key ideas include	This SOL is covered in the Physical Science in FOSS modules – <i>Electromagnetic Force, Waves, Gravity and Kinetic Energy</i> and <i>Chemical Interactions</i> .		
a)	energy can be stored in different ways;	FOSS Next Generation Electromagnetic Force ATE Energy and Collisions – Potential and Kinetic Energy, Investigation 3, Part 1-2, pp. 210-239 ATE Kinetic Energy – Gas Expansion/Contraction, Investigation 4, Parts 1-3, pp. 270-313 CT Potential and Kinetic Energy, pp. 37-40 (eBook) [Inv. 3.1] CT Where We Get Energy, pp. 56-62 (eBook) [Inv. 4.2] CT Particles in Solids, Liquids, and Gases, Activity, fossweb.com [Inv. 4.3]		
		FOSS Next Generation Waves ATE Wave Energy – Energy in Waves, Investigation 2, Part 1, pp. 126-141 CT Ocean Waves, pp. 3-6, (eBook) [Inv. 2.1] CT Tsunamis!, pp. 7-11, (eBook) [Inv. 2.1]		

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	FOSS Next Generation Electromagnetic Force
	ATE Energy Transfer – Electric Motors, Investigation 4, Parts 1-3, pp. 270-313
	FOSS Next Generation Waves
	ATE Waves Energy, Investigation 2, Parts 1-3, pp.
b) energy is transferred and	FOSS Next Generation Gravity and Kinetic Energy
transformed; and	ATE Energy and Collisions, Investigation 3, Parts 1-3, pp.
transformed, and	ATE Collision Energy, Investigation 4, Parts 1-2, pp.
	FOSS Next Generation Chemical Interactions
	ATE Energy Transfer – Mixing Hot and Cold, Investigation 5, Parts 1-3, pp. 330-371
	ATE Thermos Engineering – Insulation, Investigation 6, Parts 1-2, pp.384-414
	ATE Solutions – Dissolve and Melt, Investigation 7, Part 1, pp. 430-440
	ATE Phase Change – Melting Temperature, Investigation 8, Parts 1-4, pp. 482-489
	FOSS Next Generation Electromagnetic Force
	ATE Energy Transfer – Electric Motors, Investigation 4, Part 1, pp. 270-280
	ATE Energy Transfer – Force and Energy, Investigation 4, Part 3, pp. 302-307
c) energy can be transformed to meet	
societal needs.	CT The Rebirth of Electric Cars, pp. 47-55 (eBook) [Inv.4.2]
	CT Where We Get Energy, pp. 56-62 (eBook) [Inv. 4.2]
	CT Kitchen Magnets, Activity, fossweb.com [Inv. 4.1]
	CT Generator Dissection, Video, fossweb.com [Inv. 4.2]

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STANDARD		Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)
PS.6	The student will investigate and understand that waves are important in the movement of energy. Key ideas include	This SOL is covered in the Physical Science in FOSS modules – <i>Waves</i> and <i>Electromagnetic Force</i> .
a)	energy may be transferred in the form of longitudinal and transverse waves;	FOSS Next Generation Waves ATE Make Waves – Pulse Rate, Investigation 1, Part 1, pp. 90-98 ATE Make Waves – Spring Waves, Investigation 1, Part 2, pp. 99-111 CT Telecommunication: From Telegraph to Smartphone, pp. 69-78 (eBook) [Inv. 4.3] CT Transverse and Compression Waves, Resource, fossweb.com, [Inv. 1.2]
b)	mechanical waves need a medium to transfer energy;	FOSS Next Generation Waves ATE Make Waves – Spring Waves, Investigation 1, Part 2, pp. 99-111 ATE Wave Energy – Energy in Sound Waves, Investigation 2, Part 3, pp. 156-174 CT Sound Waves, pp. 17-20 (eBook) [Inv. 2.3] CT Acoustic Engineering, pp. 21-27 (eBook) [Inv. 2.3] CT Telecommunication: From Telegraph to Smartphone, pp. 69-78, (eBook) [Inv. 4.3] CT Transverse and Compression Waves, Resource, fossweb.com, [Inv. 1.2] CT Soundproof Engineering, Video, fossweb.com, [Inv. 2.3] CT Oscilloscope, Activity, fossweb.com, [Inv. 2.3]

	FOSS Next Generation Waves ATE Wave Energy – Bridge Collapse, Investigation 2, Part 2, pp. 142-155
c) waves can interact; and	CT Telecommunication: From Telegraph to Smartphone, pp. 69-78, (eBook) [Inv.
	[4.3]
	CT Tacoma Narrows Bridge Collapse, Video, fossweb.com, Investigation 2, Part 2
	FOSS Next Generation Electromagnetic Force
	ATE Wave Energy – Energy in Sound Waves, Investigation 2, Part 3, pp. 156-174
	CT Sound Waves, pp. 17-20 (eBook) [Inv. 2.3]
d) energy associated with waves has	CT Acoustic Engineering, pp. 21-27 (eBook) [Inv. 2.3]
many applications.	CT Telecommunication: From Telegraph to Smartphone, pp. 69-78, (eBook) [Inv.
7 11	4.3]
	CT Soundproof Engineering, Video, fossweb.com, [Inv. 2.3]
	CT Oscilloscope, Activity, fossweb.com [Inv. 2.3]

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STA	NDARD	Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)	
PS.7	The student will investigate and understand that electromagnetic radiation has characteristics. Key ideas include	This SOL is covered in the Physical Science in FOSS module – <i>Waves</i> .	
		FOSS Next Generation Waves	
	a) electromagnetic radiation, including visible light, has	ATE Light Waves – Mirrors, Investigation 3, Parts 1-2, pp. 190-222	
		ATE Light Waves – Color, Investigation 3, Part 3, pp. 223-232	
		ATE Light Waves – Refraction, Investigation 3, Part 4, pp. 233-242	
		CT Reflecting Light, pp. 28-32 (eBook) [Inv. 3.1]	
	wave characteristics and	CT Electromagnetic Spectra, Electromagnetic Radiation and Human Health, pp. 33-	
	behavior; and	41 (eBook) [Inv, 3,2]	
		CT Throw a Little Light on Sight, pp. 49-53 (eBook) [Inv. 3.3]	
		CT Telecommunication: From Telegraph to Smartphone, pp. 69-78, (eBook) [Inv.	
		4.3]	
		CT Refraction Activity, fossweb.com [Inv. 3.4]	
		FOSS Next Generation Waves	
	b) regions of the electromagnetic spectrum have specific characteristics and uses.	ATE Communication Waves – Optica Fibers, Investigation 4, Part 1, pp. 260-266	
		ATE Communication Waves – Sending Sound, Investigation 4, Part 2, pp. 267-276	
		C/D / 50 (2) / D 1) [1 41]	
		CT Lasers, pp. 58-62 (eBook) [Inv. 4.1]	
		CT Digitalized Communication, pp. 63-68 (eBook) [Inv. 4.3]	

CT Telecommunication: From Telegraph to Smartphone, pp. 69-78, (eBook) [Inv.
4.3]
CT Fiber Optics, Video, fossweb.com [Inv. 4.1]
CT Digitized Images, Activity, fossweb.com, Inv. 4.3]

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	2018 Physical Science Standards of Learning		
STANDARD		Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)	
PS.8	The student will investigate and understand that work, force, and motion are related. Key ideas include	This SOL is covered in the Physical Science in FOSS modules – <i>Electromagnetic Force</i> and <i>Gravity and Kinetic</i> .	
a)	motion can be described using position and time; and	FOSS Next Generation Gravity and Kinetic Energy ATE Acceleration – Speed Tracks, Investigation 1, Part 1, pp. 92-107 ATE Acceleration – Acceleration Track, Investigation 1, Part 2, pp. 108-121 ATE Acceleration – Acceleration of Gravity, Investigation 1, Part 3, pp. 122-146 CT How Fast Do Things Go?, pp. 3-19, (eBook), [Inv. 1.1] CT Faster and Faster, pp.11-17, (eBook), [Inv. 1.2] CT Gravity: It's the Law, pp. 18-25, (eBook) [Inv. 1.3] CT Creation – Movie Tracker, Video, fossweb.com [Inv. 1.3] CT Falling Ball, Video, fossweb.com, [Inv.1.3]	
b)	motion is described by Newton's laws.	FOSS Next Generation Electromagnetic Force ATE What is a Force? – Push and Pull, Investigation 1, Parts 1-3, pp. 94-134 CT The Force is With You, pp. 3-7 (eBook) [Inv. 1.1] CT The Discovery of Friction, pp. 8-14 (eBook) [Inv. 1.2] FOSS Next Generation Gravity and Kinetic Energy ATE Force of Gravity – Mass and Weight, Investigation 2, Parts 1-2, pp. 162-196 ATE Energy and Collisions – Stop or Crash?, Investigation 3, Parts 2-3, pp. 230-255	

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CT A Weighty Matter, pp. 26-30 (eBook) [Inv. 2.1]
CT Gravity in Space, pp. 31-36 (eBook) [Inv. 2.2]
CT Newton's Laws, pp. 45-49 (eBook) [Inv. 3.3]

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STANDARD		Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)
PS.9	The student will investigate and understand that there are basic principles of electricity and magnetism. Key ideas include	This SOL is covered in the Physical Science in FOSS module – <i>Electromagnetic Force</i> .
a)	an imbalance of charge generates static electricity;	FOSS Next Generation Electromagnetic Force ATE Electromagnetism – Building a Circuit, Investigation 3, Part 1, pp. 206-225 ATE Energy Transfer – Force and Energy, Investigation 4, Part 3, pp. 302-307 CT Circuitry and Lightbulbs, pp. 25-30 (eBook) [Inv. 3.1] CT What is Electricity?, pp. 31-37 (eBook) [Inv. 3.1] CT Lighting a Bulb, Activity, fossweb.com [Inv. 3.1]
b)	materials have different conductive properties;	FOSS Next Generation Electromagnetic Force ATE Electromagnetism – Building a Circuit, Investigation 3, Part 1, pp. 206-225 ATE Energy Transfer – Force and Energy, Investigation 4, Part 3, pp. 302-307 CT Circuitry and Lightbulbs, pp. 25-30 (eBook) [Inv. 3.1] CT Lighting a Bulb, Activity, fossweb.com [Inv. 3.1]
c)	electric circuits transfer energy;	FOSS Next Generation Electromagnetic Force ATE Electromagnetism – Building a Circuit, Investigation 3, Part 1, pp. 206-225 ATE Energy Transfer – Force and Energy, Investigation 4, Part 3, pp. 302-307 CT Circuitry and Lightbulbs, pp. 25-30 (eBook) [Inv. 3.1] CT Lighting a Bulb, Online Activity, fossweb.com [Inv. 3.1]

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	,
	FOSS Next Generation Electromagnetic Force
	ATE The Force of Magnetism – Properties of Magnets, Investigation 2, Parts 1-3,
	pp. 150-190
	ATE <i>Electromagnetism – Building an Electromagnet,</i> Investigation 3, Parts 2-3, pp.
	226-254
d) magnetic fields cause the magnetic	
effects of certain materials;	CT Magnetic Force, pp. 19-24 (eBook) [Inv. 2.2]
	CT Electromagnetism, pp. 38-41(eBook) [Inv.3.2]
	CT Electromagnetic Engineering, pp. 42-46 (eBook) [Inv. 3.3]
	CT Magnetism, Video, fossweb.com [Inv. 2.2]
	CT Adding Magnetic Fields, Online Activity, fossweb.com [Inv. 2.3]
	CT Kitchen Magnets, Activity, fossweb.com [Inv. 3.2]
	FOSS Next Generation Electromagnetic Force
	ATE Electromagnetism – Building an Electromagnet, Investigation 3, Part 2, pp.
	226-241
e) electric current and magnetic fields	ATE Electromagnetism – Improving the Design, Investigation 3, Part 3, pp. 242-254
are related; and	ATE Energy Transfer – Force and Energy, Investigation 4, Part 3, pp. 302-307
	CT Electromagnetism, pp. 38-41 (eBook) [Inv.3.2]
	CT Kitchen Magnets, Activity, fossweb.com [Inv. 3.2]
	FOSS Next Generation Electromagnetic Force
	ATE Energy Transfer – Electric Motors, Investigation 4, Part 1, pp. 270-280
f) many tachnalagies was alactricity	ATE Energy Transfer – Force and Energy, Investigation 4, Part 3, pp. 302-307
f) many technologies use electricity	
and magnetism.	CT The Rebirth of Electric Cars, pp. 47-55 (eBook) [Inv.4.2]
	CT Kitchen Magnets, Activity, fossweb.com [Inv. 4.1]
	CT Generator Dissection, Video, fossweb.com [Inv. 4.2]