

## CORRELATIONS TO OHIO SCIENCE STANDARDS

Franklin Soil and Water Conservation District's SWIFTlets have been created to enhance at-home learning and exploration. These instructional guides include topical background information, related children's books, straightforward learning activities and related online resources. Each SWIFTlet has a corresponding coloring page.

The SWIFTlets are aligned to Ohio's Learning Standards for Earth and Space Science and Life Science (please see correlations below).

The SWIFTlets and coloring pages are available on our website

1: Water Quality	2: Soil Superheroes	3: Surprising Seeds	4: Native Plants
5: Celebrating the Earth	6: Pollinator Power	7: Wonders of Water	8: Helping Hands for Endangered Friends
9: Mighty Macros	10: Splendid Soil	11: Scoop on Scat	12: Stream Stewardship
13: Waste Not, Want Not	14: Looking at Leaves		1

Franklin Soil and Water Conservation District offers virtual environmental education programs, aligned to state curriculum standards. We also have models and loan kits available. **Contact us** for more information.



SWIFTlet	GRADE LEVEL	STANDARD
	PRE-K	Earth and Space Science Develop understanding of the relationship between humans and nature; recognizing the difference between helpful and harmful actions toward the natural environment.  Life Science Identify and explore the relationship between living things and their environments (e.g., habitats, food, eating habits, etc.).
SWIFTLET 1:		1.ESS.2 Water on Earth is present in many forms.
WATER QUALITY	1	<b>1.LS.1</b> Living things have basic needs, which are met by obtaining materials from the physical environment.
Find?  Rindow Davier  Widner Conner value  Widner Conner value  Widner Conner value  Widner Conner value  Rindow		<b>1.LS.2</b> Living things survive only in environments that meet their needs.
Prindfod Matten Narthon Hay Sucker	2	2.LS.1 Living things cause changes on Earth.
Tracker loads Windows  Tracker loads  Tracker loads	3	3.ESS.3 Some of Earth's resources are limited.
CAMORING LANGE TOWN		<b>4.ESS.1</b> Earth's surface has specific characteristics and landforms that can be identified.
Merty Linux Blue-rated Daniel	4	<b>4.ESS.3</b> The surface of Earth changes due to erosion and deposition.
Water as a habitat		<b>4.LS.1</b> Changes in an organism's environment are sometimes beneficial to its survival and sometimes harmful.
<ul> <li>Sources of water pollution</li> </ul>	7	<b>7.LS.2</b> In any particular biome, the number, growth and survival of organisms and populations depend on biotic and abiotic factors.
<ul> <li>Impacts of water pollution on local species</li> </ul>		B.DI.2 Ecosystems (Equilibrium)
	HIGH	ENV.ES.1 Biosphere (Ecosystems equilibrium)
	SCHOOL	<b>ENV.ER.3</b> Water and Water pollution (Potable water and water quality, Point source and non-point source contamination)
		PG.ER.3 Water (Potable water and water quality)

SWIFTlet	GRADE LEVEL	STANDARD
	PRE-K	Earth and Space Science Develop understanding of the relationship between humans and nature; recognizing the difference between helpful and harmful actions toward the natural environment.
		<b>Life Science</b> Identify physical characteristics and simple behaviors of living things.
SWIFTLET 2: SOIL SUPERHEROES		<b>Life Science</b> Identify and explore the relationship between living things and their environments (e.g., habitats, food, eating habits, etc.).
Provider Soil and Wilder Conservation District  White A World  Whi		<b>Life Science</b> Demonstrate knowledge of body parts and bodily processes in humans and other animals.
SOIL SUPERHEROES		<b>Life Science</b> Recognize similarities and differences between people and other living things.
Services St.		K.LS.1 Living things have specific characteristics and traits.
would you like to	K	<b>K.LS.2</b> Living things have physical traits and behaviors, which influence their survival.
S S S S S S S S S S S S S S S S S S S	1	<b>1.LS.1</b> Living things have basic needs, which are met by obtaining materials from the physical environment.
Soil as a habitat	I	1.LS.2 Living things survive only in environments that meet their needs.
<ul><li>Organisms that live</li></ul>	2	2.LS.1 Living things cause changes on Earth.
<ul><li>underground</li><li>Roles of soil organisms in their</li></ul>	3	<b>3.LS.3</b> Plants and animals have life cycles that are part of their adaptations for survival in their natural environments.
habitat	5	<b>5.LS.1</b> Organisms perform a variety of roles in an ecosystem.
	7	<b>7.LS.2</b> In any particular biome, the number, growth and survival of organisms and populations depend on biotic and abiotic factors.
	HIGH SCHOOL	ENV.ES.1 Biosphere (Biodiversity, Ecosystem equilibrium)

SWIFTlet	GRADE LEVEL	STANDARD
SWIFTLET 3: SURPRISING SEEDS	PRE-K	<b>Life Science</b> : Demonstrate an understanding that living things change over time (e.g., life cycle).
Franklin Soil and Water Conservation District  Which is which? Cam you identify the maple, buckeye, oak and dandelion?  Name  Apple  To be the property of the maple of the ma	K	K.LS.1 Living things have specific characteristics and traits.
	1	<b>1.LS.1</b> Living things have basic needs, which are met by obtaining materials from the physical environment.
		<b>1.LS.2</b> Living things survive only in environments that meet their needs.
<ul> <li>Role of seeds</li> <li>Explanation of plant parts</li> <li>Importance of healthy soil to healthy plants</li> </ul>	3	<b>3.LS.3</b> Plants and animals have life cycles that are part of their adaptations for survival in their natural environments.
	7	<b>7.LS.2</b> In any particular biome, the number, growth and survival of organisms and populations depend on biotic and abiotic factors.

SWIFTlet	GRADE LEVEL	STANDARD
SWIFTLET 4:	PRE-K	Earth and Space Science Develop understanding of the relationship between humans and nature; recognizing the difference between helpful and harmful actions toward the natural environment.  Life Science Identify and explore the relationship between living things and their environments (e.g., habitats, food, eating habits, etc.).
NATIVE PLANTS	V	K.LS.1 Living things have specific characteristics and traits.
Scavenger Hunt & Coloring Page	K	<b>K.LS.2</b> Living things have physical traits and behaviors, which influence their survival.
Violets Sweetymm Tree Fruit Eastern Cottonwood Flower	1	<b>1.LS.1</b> Living things have basic needs, which are met by obtaining materials from the physical environment.
Red Maple Seeds Wilste Clover Flower's		<b>1.LS.2</b> Living things survive only in environments that meet their needs.
Violets  Sweetgum Tree Freit  Red Maple Seeds  Write Clover  Flowering Tegyeod  Ploses  Dandellon (umralus)  Fastern Redecdar  Flowers  Fl	2	2.LS.1 Living things cause changes on Earth.
	3	<b>3.LS.2</b> Individuals of the same kind of organism differ in their inherited traits. These differences give some individuals an advantage in surviving and/or reproducing.
	4	<b>4.LS.1</b> Changes in an organism's environment are sometimes beneficial to its survival and sometimes harmful.
	5	5.LS.1 Organisms perform a variety of roles in an ecosystem.
<ul> <li>Plant habitats</li> <li>Native vs non-native plants</li> </ul>	7	<b>7.LS.2</b> In any particular biome, the number, growth and survival of organisms and populations depend on biotic and abiotic factors.
	HIGH	B.DI.1 Biodiversity (Species diversity)
	SCHOOL	ENV.ES.1 Biosphere (Biodiversity and Ecosystems)

SWIFTlet	GRADE LEVEL	STANDARD
	PRE-K	Earth and Space Science Develop understanding of the relationship between humans and nature; recognizing the difference between helpful and harmful actions toward the natural environment.
SWIFTLET 5:		<b>Life Science</b> Identify and explore the relationship between living things and their environments (e.g., habitats, food, eating habits, etc.).
CELEBRATING THE EARTH  Frails fold at Ware CONTROLL OF THE CARTH	K	<b>K.LS.2</b> Living things have physical traits and behaviors, which influence their survival.
PLANT A NATTIVE TREE	1	<b>1.LS.2</b> Living things survive only in environments that meet their needs.
Needs of living things     Human impact on the environment     Reference to The Lorax	2	2.LS.1 Living things cause changes on Earth.
	3	3.ESS.3 Some of Earth's resources are limited.
	4	<b>4.LS.1</b> Changes in an organism's environment are sometimes beneficial to its survival and sometimes harmful.
	7	<b>7.LS.2</b> In any particular biome, the number, growth and survival of organisms and populations depend on biotic and abiotic factors.
	HIGH	B.DI.3 Loss of Diversity (Anthropocene effects)
	SCHOOL	<b>ENV.ES.1</b> Biosphere (Ecosystems: equilibrium, species interactions, stability)

SWIFTlet	GRADE LEVEL	STANDARD
	PRE-K	<b>Life Science</b> Identify and explore the relationship between living things and their environments (e.g., habitats, food, eating habits, etc.).
SWIFTLET 6: POLLINATOR POWER	K	<b>K.LS.2</b> Living things have physical traits and behaviors, which influence their survival.
Parkin lot and Ward Communication  Finds, throated Homework  Homew	1	<b>1.LS.1</b> Living things have basic needs, which are met by obtaining materials from the physical environment.
POPHER WASSP  POLILAMETER (ATS MCCEPA, BOUNDESS ON STREAMER, BOUNDESS ON STREAMER, POLILAMETER (ATS MCCEPA, BOUNDESS ON STREAMER, BOUNDESS ON STREAMER, BOUNDESS ON STREAMER, POLILAMETER (ATS MCCEPA, BOUNDESS ON STREAMER, BOUNDESS ON STREAME	1	<b>1.LS.2</b> Living things survive only in environments that meet their needs.
Soffer Butterfly  Soffer Butterfly  Aut	3	<b>3.LS.3</b> Plants and animals have life cycles that are part of their adaptations for survival in their natural environments.
<ul> <li>Introduction to pollinators</li> <li>Interaction between plants</li> </ul>	5	5.LS.1 Organisms perform a variety of roles in an ecosystem.
<ul><li>and animals</li><li>Importance of pollinators</li></ul>	7	<b>7.LS.2</b> In any particular biome, the number, growth and survival of organisms and populations depend on biotic and abiotic factors.
	HIGH SCHOOL	<b>ENV.ES.1</b> Biosphere (Ecosystems: equilibrium, species interactions, stability)

SWIFTlet	GRADE LEVEL	STANDARD
SWIFTLET 7: WONDERS OF WATER	1	1.ESS.2 Water on Earth is present in many forms.
WONDERS OF WATER  Franklin Soil and Water Conservation District Instrumentary : 116 (80.01)	3	3.ESS.3 Some of Earth's resources are limited.
National Drinking Water Week	7	<b>7.ESS.1</b> The hydrologic cycle illustrates the changing states of water as it moves through the lithosphere, biosphere, hydrosphere and atmosphere.
all the ways you use water to be a second of the ways		ENV.ER.3 Water and water pollution (Potable water and water quality)
<ul><li>Properties of water</li><li>Importance of water</li></ul>	HIGH SCHOOL	ENV.GP.2 Potable water quality use and availability
<ul> <li>Sources of water and water pollution</li> </ul>		PG.ER.3 Water (Potable water and water quality)

SWIFTlet	GRADE LEVEL	STANDARD
	PRE-K	Earth and Space Science Develop understanding of the relationship between humans and nature; recognizing the difference between helpful and harmful actions toward the natural environment.
SWIFTLET 8:		<b>Life Science</b> Identify physical characteristics and simple behaviors of living things.
HELPING HANDS FOR ENDANGERED FRIENDS		<b>Life Science</b> Identify and explore the relationship between living things and their environments.
HELPING HANDS FOR ENDANGERED FRIENDS	K	<b>K.LS.2</b> Living things have physical traits and behaviors, which influence their survival.
Bald Eagle  Jidakeetrus lossessephales  Northern  Teiffleshell  Gaddenna  ferrilosa rimijana  ferrilosa rimijana  Frenklin Soil and Water  Cryptair suchus alleyamenos	1	<b>1.LS.1</b> Living things have basic needs, which are met by obtaining materials from the physical environment.
	I	<b>1.LS.2</b> Living things survive only in environments that meet their needs.
	2	2.LS.1 Living things cause changes on earth.
		<b>2.LS.2</b> All organisms alive today result from their ancestors, some of which may be extinct. Not all kinds of organisms that lived in the past are represented by living organisms today.
<ul> <li>Needs of living things</li> </ul>	4	<b>4.LS.1</b> Changes in an organism's environment are sometimes beneficial to its survival and sometimes harmful.
<ul> <li>Introduction to endangered species</li> </ul>	7	<b>7.LS.2</b> In any particular biome, the number, growth and survival of organisms and populations depend on biotic and abiotic factors.
<ul> <li>Causes for species to become endangered</li> </ul>		B.DI.3 Loss of Diversity (Anthropocene effects, extinction)
	HIGH SCHOOL	<b>ENV.ES.1</b> Biospheres (Ecosystems: equilibrium, species interactions, stability)
		<b>ENV.ER.5</b> Wildlife and wilderness (Wildlife and wilderness management, Endangered species)

SWIFTlet	GRADE LEVEL	STANDARD
CVA/IETI ET O	PRE-K	Earth and Space Science Develop understanding of the relationship between humans and nature; recognizing the difference between helpful and harmful actions toward the natural environment.  Life Science Identify physical characteristics and simple behaviors of living things.  Life Science Identify and explore the relationship between living
<u>SWIFTLET 9:</u> <u>MIGHTY MACROS</u>		things and their environments (e.g., habitats, food, eating habits, etc.). <b>Life Science</b> Demonstrate knowledge of body parts and bodily
MIGHTY		processes in humans and other animals.
MACROINVERTEBRATES	V	K.LS.1 Living things have specific characteristics and traits.
Wagros Observed  Observer Name:  Date:  Croyfish  Moyfly	K	<b>K.LS.2</b> Living things have physical traits and behaviors, which influence their survival.
musser -	1	<b>1.LS.1</b> Living things have basic needs, which are met by obtaining materials from the physical environment.
	I	<b>1.LS.2</b> Living things survive only in environments that meet their needs.
Franklin Soil and Water	2	2.LS.1 Living things cause changes on Earth.
Conservation District furshinearding v 3046 686-9013	3	<b>3.LS.3</b> Plants and animals have life cycles that are part of their adaptations for survival in their natural environments.
<ul> <li>Investigation of stream organisms</li> </ul>	4	<b>4.LS.1</b> Changes in an organism's environment are sometimes beneficial to its survival and sometimes harmful.
<ul> <li>Roles of organisms</li> </ul>	5	<b>5.LS.2</b> All of the processes that take place within organisms require energy.
<ul> <li>Introduction to invasive species</li> </ul>	7	<b>7.LS.2</b> In any particular biome, the number, growth and survival of organisms and populations depend on biotic and abiotic factors.
		B.DI.1 Biodiversity
	HIGH	B.DI.2 Ecosystems
	SCHOOL	B.DI.3 Loss of diversity (Invasive Species)
		ENV.ES.1 Biosphere (Biodiversity and Ecosystems)

SWIFTlet	GRADE LEVEL	STANDARD
SWIFTLET 10: SPLENDID SOIL	PRE-K	Earth and Space Science Recognize familiar elements of the natural environment and understand that these may change over time (e.g., soil).
Can You Identify Each of the Soil Horizons?  Horizons States Conjunction Materials And Annual Confusion Materials Annual Confusio	3	3.ESS.1 Earth's nonliving resources have specific properties.
Herizon Tapold  Herizon Salvall	6	<b>6.ESS.4</b> Soil is unconsolidated material that contains nutrient matter and weathered rock.
Heritane Toront Material or Salvetration Franklin Soil and Water Tomerwation District Summanus and some on the Solvetration Total Solvetration Tot	HIGH	ENV.ER.4 Soil and land (Land use and land management)
<ul><li>Properties of soil</li><li>Importance of soil</li><li>Causes of erosion</li></ul>	SCHOOL	PG.ER.4 Soil and sediment

SWIFTlet	GRADE LEVEL	STANDARD
	PRE-K	Earth and Space Science Develop understanding of the relationship between humans and nature; recognizing the difference between helpful and harmful actions toward the natural environment.
SWIFTLET 11: SCOOP ON SCAT		<b>Life Science</b> Demonstrate knowledge of body parts and bodily processes in humans and other animals.
SCOOP ON SCAT	1	<b>1.LS.1</b> Living things have basic needs, which are met by obtaining materials from the physical environment.
<ul> <li>Living things cause changes to the earth</li> <li>Different needs of different organisms</li> <li>Impacts of animal waste on the environment</li> </ul>		<b>1.LS.2</b> Living things survive only in environments that meet their needs.
	2	2.LS.1 Living things cause changes on Earth.
	4	<b>4.LS.1</b> Changes in an organism's environment are sometimes beneficial to its survival and sometimes harmful.
	5	5.LS.1 Organisms perform a variety of roles in an ecosystem.
	HIGH SCHOOL	<b>ENV.ER.3</b> Water and water pollution (Point source and non-point source contamination)

SWIFTlet	GRADE LEVEL	STANDARD
STREAM STEWARDSHIP  STREAM STEWARDSHIP  Wilds side of the stream demonstrates good stream stewardship?  Streams as a habitat  Sources of water pollution  Effects of erosion and ways to prevent it	PRE-K	Earth and Space Science Develop understanding of the relationship between humans and nature; recognizing the difference between helpful and harmful actions toward the natural environment.
	2	2.LS.1 Living things cause changes on Earth.
	4	<b>4.ESS.3</b> The surface of Earth changes due to erosion and deposition.
		<b>4.LS.1</b> Changes in an organism's environment are sometimes beneficial to its survival and sometimes harmful.
	7	<b>7.LS.2</b> In any particular biome, the number, growth and survival of organisms and populations depend on biotic and abiotic factors.
	HIGH SCHOOL	ENV.ER.3 Water and water pollution (Point source and non-point source contamination)
		ENV.ER.4 Soil and land (Mass movement and erosion, Sediment contamination)
		PG.ER.3 Water (Potable water and water quality)
		PG.ER.4 Soil and Sediment (Mass wasting and erosion, sediment contamination)

SWIFTlet	GRADE LEVEL	STANDARD
SWIFTLET 13: WASTE NOT, WANT NOT	PRE-K	Earth and Space Science Develop understanding of the relationship between humans and nature; recognizing the difference between helpful and harmful actions toward the natural environment.
RETHINK  RET	2	2.LS.1 Living things cause changes on Earth.
	3	3.ESS.3 Some of Earth's resources are limited.
	4	<b>4.LS.1</b> Changes in an organism's environment are sometimes beneficial to its survival and sometimes harmful.
<ul> <li>Human impact on the environment</li> <li>Ideas for conserving resources</li> <li>Tips to properly dispose of household waste</li> </ul>	HIGH SCHOOL	ENV.ER.4 Soil and land (Solid and hazardous waste)
		ENV.GP.9 Waste management (solid and hazardous)

SWIFTlet	GRADE LEVEL	STANDARD
SWIFTLET 14: LOOKING AT LEAVES  Looking at Leaves  Looking at Leaves  Looking at Leaves  Fraction foll and Water Color the leaves in your favorite fall colors!  Why leaves change color in the fall  Function of leaves  Importance of keeping fallen leaves off the streets and out of storm drains	PRE-K	Earth and Space Science Develop understanding of the relationship between humans and nature; recognizing the difference between helpful and harmful actions toward the natural environment.
	K	K.LS.1 Living things have specific characteristics and traits.
	1	<b>1.LS.1</b> Living things have basic needs, which are met by obtaining materials from the physical environment.
	3	<b>3.LS.3</b> Plants and animals have life cycles that are part of their adaptations for survival in their natural environments.
	5	5.LS.1 Organisms perform a variety of roles in an ecosystem.
	7	<b>7.LS.2</b> In any particular biome, the number, growth and survival of organisms and populations depend on biotic and abiotic factors.
	HIGH SCHOOL	ENV.ER.3 Water and Water pollution (Point source and non-point source contamination)