



**FRESHFARM**  
**FOODPRINTS**

# SCOPE & SEQUENCE

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PREK-5TH GRADE  
STANDARDS-ALIGNED  
INTERDISCIPLINARY CURRICULUM

[freshfarm.org/foodprints/curriculum](https://freshfarm.org/foodprints/curriculum)

## PRE - KINDERGARTEN

MONTH	TITLE	THEME
Sept	<b>Safety in the Kitchen and Garden</b>	Health and Nutrition
	<p><b>Big Idea: Students will be able to participate safely in FoodPrints activities.</b></p> <p>This lesson is an introduction to the FoodPrints program. The purpose of this lesson is for students to become familiar with the school garden and the teaching kitchen. Students will tour the school garden and harvest something they will use in the kitchen during the lesson. They will also practice a hand washing routine, taste different vegetables, learn about kitchen tools and make a simple recipe.</p>	
Oct	<b>Exploring with Our Five Senses</b>	Health and Nutrition
	<p><b>Big Idea: We use our senses to explore the world around us.</b></p> <p>The purpose of this lesson is for students to explore how their five senses influence how they experience the world. Students will use their five senses to explore the garden, and to study and draw herbs. They will also use their senses to compare different varieties of apples and create a simple bar graph showing their preferences.</p>	
Nov	<b>Meet the Plant Parts</b>	Understanding Plant Parts
	<p><b>Big Idea: Plants have recognizable parts.</b></p> <p>The purpose of this lesson is for students to understand that we eat different parts of different plants: roots, stems, leaves, flowers, fruits, and seeds. Students will search for each of these plant parts in the school garden. They will sort fruits and vegetables by which part of that plant we harvest to eat, and work on observational drawings of edible flowers, such as broccoli and cauliflower.</p>	
Dec	<b>Worms in the Garden</b>	Soil Health
	<p><b>Big Idea: Worms have an important job in the garden.</b></p> <p>The purpose of this lesson is to introduce students to the role of worms in the garden. Students will observe worms in the garden and classroom and learn about the important role they play in keeping soil healthy. They will also do observational drawings of worms' unique body structure.</p>	

## PRE - KINDERGARTEN

MONTH	TITLE	THEME
Jan	<b>Family Food Traditions</b>	Food Culture and Family Traditions
	<p><b>Big Idea: Families cook and enjoy seeds in different ways.</b></p> <p>The purpose of this lesson is for students to explore different food traditions, including their own, by studying rice and other seeds. Students will practice literacy and math skills with different types of seeds and share a family food tradition.</p>	
Feb	<b>Eating the Whole Grain</b>	Health and Nutrition
	<p><b>Big Idea: Whole grains contain all the nutrition of the grain.</b></p> <p>The purpose of this lesson is for students to understand the difference between whole grains and refined grains. They will investigate and dissect dried stalks of wheat with the grains still attached and grind flour with a flour mill or electric grinder. Students will compare the taste and nutritional differences between different types of flours.</p>	
Mar	<b>Goodbye Winter, Hello Spring</b>	Growing Food Through the Seasons
	<p><b>Big Idea: We eat different vegetables from the garden in winter and spring.</b></p> <p>The purpose of this lesson is for students to explore the differences between winter and spring gardens and the food they produce. Students will observe the size, shape, color, and weight of winter vegetables. They will also plant spring seeds and seedlings for the school garden and use seed catalogs to plan a spring garden.</p>	
Apr	<b>Recycling at School</b>	Conservation and Social Justice
	<p><b>Big Idea: We can take care of Earth’s resources by recycling.</b></p> <p>The purpose of this lesson is for students to learn about conservation, specifically tree conservation, and practice ways they can participate in conservation efforts. Through a read aloud, students will learn how to protect and appreciate the trees in our natural world. They will make seed paper by recycling old newspaper, create art from recycled items, and prepare a recipe using recycled edible plant parts. This lesson supports the DCPS ELA Kindergarten Unit, <i>Conservation</i>.</p>	
May	<b>Pollinators at Work</b>	Habitats and Life Cycles
	<p><b>Big Idea: Many delicious fruits and vegetables depend on pollinators to grow.</b></p> <p>The purpose of this lesson is to introduce students to pollination and pollinators. Students will learn about the important role that pollinators play in the garden to make sure our fruits and vegetables grow. They will also make models of pollinators and search for pollinators in the garden.</p>	

## KINDERGARTEN

MONTH	TITLE	THEME
Sept	<b>Bringing Food from Farm to Table</b>	Food History and Technology
	<p><b>Big Idea: There are many jobs that bring food from farms and gardens to our tables.</b></p> <p>The purpose of this lesson is for students to learn about the different jobs needed to support a farm and bring food to the table. They will discuss what it takes to make the school garden grow and compare this to what it might take to manage a large farm. The lesson supports the DCPS Kindergarten ELA Unit <i>Community Workers</i>.</p>	
Oct	<b>Exploring Soil</b>	Soil Health
	<p><b>Big Idea: Soil is made of many different ingredients.</b></p> <p>The purpose of this lesson is to introduce students to soil and to explore its different components. Students will examine soil from different areas around the school and dissect soil samples from the garden. They will also work to prepare the garden for winter by protecting the soil.</p>	
Nov	<b>Compost Stew</b>	Soil Health
	<p><b>Big Idea: Composting is nature's way of recycling.</b></p> <p>The purpose of this lesson is for students to understand the basics of composting and its importance in the garden. After learning about the different ingredients needed to make compost, students make their own compost stew. Students will also carefully observe worms in the garden or in a bin in the classroom and learn about their role in the decomposition process.</p>	
Dec	<b>The Seasons of the Garden</b>	Growing Food through the Seasons
	<p><b>Big Idea: The plants we grow in the garden change with the seasons.</b></p> <p>The purpose of this lesson is for students to make connections between weather and seasonal food. After discussing seasons, weather, and plant growth, students study a seasonal food chart and then create their own. They search for signs of life in the winter garden, make observational drawings and then predict how the garden will change in other seasons. This lesson supports the DCPS Kindergarten ELA Unit <i>Water and Precipitation</i> and the Science Unit <i>Dealing with Weather</i>.</p>	
Jan	<b>Comparing Seeds</b>	Applying Math in the Garden and Kitchen
	<p><b>Big Idea: All fruits have seeds and different fruits have different kinds of seeds.</b></p> <p>The purpose of this lesson is for students to become familiar with the ways that seeds vary in color, shape and size. They will dissect fruits to compare and classify their seeds and explore the structure and function of fruits and seeds by building models and making observations. They will also work with a variety of seeds to practice sorting, counting, addition and subtracting.</p>	

## KINDERGARTEN

MONTH	TITLE	THEME
Feb	<b>Growing Vegetable Soup</b>	Health and Nutrition
	<p><b>Big Idea: We can grow a variety of vegetables in our garden.</b></p> <p>The purpose of this lesson is for students to explore vegetables. Students will choose vegetables they would like to plant in the garden, carefully observe a few winter vegetables and celebrate the variety of vegetables they can eat.</p>	
Mar	<b>A Recipe for Plant Survival</b>	Soil Health
	<p><b>Big Idea: We can help plants thrive in our school garden.</b></p> <p>The purpose of this lesson is for students to identify and describe patterns of what plants need to survive, as well as investigate what plants need to <i>thrive</i>, not just survive. Students will prepare soil for spring gardening and search in the garden for plants that are surviving, thriving, as well as those that are not healthy. They will also create a guide on how to care for plants. This lesson supports the DCPS Kindergarten Science Unit, <i>Living Things and their Habitats</i>.</p>	
Apr	<b>Tree Conservation</b>	Conservation and Social Justice
	<p><b>Big Idea: We can care for Earth by protecting trees and conserving paper.</b></p> <p>The purpose of this lesson is for students to learn about conservation, specifically tree conservation, and practice ways they can participate in conservation efforts. Through a read aloud, students will learn how to protect and appreciate the trees in our natural world. They will make seed paper by recycling old newspaper, create art from recycled items, and prepare a recipe using recycled edible plant parts. This lesson supports the DCPS ELA Kindergarten Unit <i>Conservation</i>.</p>	
May	<b>Life Cycles and Patterns</b>	Habitats and Life Cycles
	<p><b>Big Idea: All living things have a life cycle.</b></p> <p>The purpose of this lesson is for students to study the life cycle of a butterfly and observe plants at different stages of their life cycle in the garden. Students will act out the life cycle of a butterfly, review the stages in a plant's life cycle, and compare these to their own life cycle. In the garden, students will identify, observe, and draw plants at different stages of growth. This lesson supports the DCPS Kindergarten ELA Unit <i>Changes in Nature</i> and the Science Unit <i>Living Things and Their Habitats</i>.</p>	

# 1ST GRADE

MONTH	TITLE	THEME
Sept	Edible Plant Parts	Understanding Plant Parts
	<p><b>Big Idea: We eat different parts of different plants.</b></p> <p>The purpose of this lesson is for students to understand that plants have different parts and that we eat different parts of different plants. They will also begin to understand the structure and form of each plant part. Students will work collaboratively to sort plants by which part we eat. In the garden, they will observe and draw plants and identify the different parts of the edible plants.</p>	
Oct	Eating the Rainbow	Health and Nutrition
	<p><b>Big Idea: Eating a rainbow of vegetables and fruits is good for your body.</b></p> <p>The purpose of this lesson is for students to understand that there are many health benefits to eating fruits and vegetables in a variety of colors. Students will sort produce by color, create a rainbow poster illustrating different colored produce and search the garden for examples of colorful produce. This lesson supports the 1st grade DCPS ELA Unit, <i>Body Functions and Self Identity</i>.</p>	
Nov	Seed Dispersal	Understanding Plant Parts
	<p><b>Big Idea: Seeds have structures that help them travel.</b></p> <p>The purpose of this lesson is for students to study seeds that fly and understand why and how seeds disperse. Students will closely observe seeds in different ways and design their own plant to explore the various ways that seeds travel. They will also learn different ways to collect and save seeds. This lesson supports the DCPS 1st Grade ELA Unit, <i>Taking Flight</i>.</p>	
Dec	Plant Adaptation and Survival	Habitats and Life Cycles
	<p><b>Big Idea: Plants have adaptations that help them survive.</b></p> <p>The purpose of this lesson is for students to learn about how plants use adaptations for survival. Students will explore examples of unique plant adaptations, create a model of a plant with a special adaptation, and work to prepare the garden so that the plants can adapt and survive the winter. This lesson can be used to support the DCPS 1st Grade Science Unit <i>Design from Nature</i>.</p>	
Jan	The Winter Garden	Growing Food Through the Seasons
	<p><b>Big Idea: Different plants grow in different seasons</b></p> <p>The purpose of this lesson is for students to understand seasonality - that different plants grow in different seasons. Students will carefully observe the school garden in winter and build their own seasonality chart based on the plants that are available at different times of year. They will also read seed packets in order to make a planting plan for the school garden. This lesson supports the 1st grade DCPS Science Unit <i>Patterns in the Sky</i>.</p>	

# 1ST GRADE

MONTH	TITLE	THEME
Feb	<b>Fractions and Fairness</b>	Conservation and Social Justice
	<p><b>Big Idea: Sometimes what is equal is not fair.</b></p> <p>The purpose of this lesson is for students to practice partitioning and creating equal parts through real-world applications in the kitchen and garden. In the garden, students will prepare raised beds for planting by dividing them into equal parts. In the kitchen, they will work on creating equal parts from fruits and vegetables of different sizes for sharing. They will also explore the terms fair and equal and consider if equal is always fair.</p>	
Mar	<b>Mapping the School Garden</b>	Food History and Technology
	<p><b>Big Idea: We can use maps and recipes to navigate our world.</b></p> <p>The purpose of this lesson is for students to investigate why people use maps, how maps help people, and the different types of maps that people use. Students will explore the similarities between maps and recipes and then navigate their school garden using a map they create. This lesson supports the DCPS 1st grade Social Studies Unit <i>Getting Around Town</i>.</p>	
Apr	<b>Exploring Leaf Families</b>	Understanding Plant Parts
	<p><b>Big Idea: Leaves, like people, have many different characteristics.</b></p> <p>The purpose of this lesson is for students to study the similarities and differences of leaves within the same family of plants. Students will learn that plants, like humans, share some characteristics but also inherit individual traits. They will study the differences between leaves by making observational drawings in the garden and comparing harvested leaves through Venn diagrams and leaf rubbings. This lesson supports the DCPS 1st grade Science Unit <i>Parents and their Offspring</i>.</p>	
May	<b>Three Sisters Gardens</b>	Food History and Technology
	<p><b>Big Idea: Both plants and people can help each other grow and thrive.</b></p> <p>The purpose of this lesson is to learn about the Three Sisters Garden, and why Native Americans planted corn, beans, and squash together. Students will learn how these three plants benefit one another and thrive together, as well as other examples of companion planting. Students will read the legend and explore how the theme of the Three Sisters applies to their own lives, build models of the plants, and design a Three Sisters Garden.</p>	

## 2ND GRADE

MONTH	TITLE	THEME
Sept	<b>Plant and Their Families</b>	Understanding Plant Parts
	<p><b>Big Idea: Plants have families.</b></p> <p>The purpose of this lesson is for students to explore plant families. Students will study characteristics of different plant families and look for examples of each one in the school garden. They will create observational drawings that focus on the differences between plant families and use seed catalogs to create a poster of plant families. This lesson supports the DCPS 2nd Grade ELA Unit <i>From Seed to Plant</i> and Science Unit <i>Organisms - Needs and Interactions</i>.</p>	
Oct	<b>Advertising and Food Choices</b>	Health and Nutrition
	<p><b>Big Idea: There are many influences on our food choices.</b></p> <p>The purpose of this lesson is for students to learn about the different factors that influence the foods we choose to eat, including culture, peers, media, and advertising. Students will evaluate the influences on their own food choices and create an advertisement for a nutritious food or ingredient. They will also work to clean the garden so that it can be an advertisement for its delicious and nutritious produce.</p>	
Nov	<b>Scientific and Artistic Observations</b>	Understanding Plant Parts
	<p><b>Big Idea: Scientific observations help us understand the world.</b></p> <p>The purpose of this lesson is for students to practice making detailed scientific observations as part of the scientific process. Students will compare artistic and scientific drawings, create their own artistic and scientific drawings and models, and label an interactive map of the winter garden.</p>	
Dec	<b>Changes Over Time</b>	Food History and Technology
	<p><b>Big Idea: The technology we use changes over time.</b></p> <p>The purpose of this lesson is for students to investigate changes over time in food growing, cooking, and storage technology. They will explore the evolution of technology by using three different tools to make flour, making their own butter, and working with different garden tools to compare efficiency. This lesson supports the DCPS 2nd Grade ELA Unit <i>Then and Now</i>.</p>	



## 2ND GRADE

MONTH	TITLE	THEME
Jan	<b>Exploring Food Traditions</b>	Food Culture, and Family Traditions
	<p><b>Big Idea: Food is an important part of culture and identity.</b></p> <p>The purpose of this lesson is for students to study and appreciate food traditions around the world, including their own food. Students will investigate foods that are prepared in different ways around the world and choose plants to grow in an international garden. They will also analyze the different ingredients in a FoodPrints recipe. This lesson supports the DCPS 2nd grade ELA Unit <i>Exploring Our Neighbors: Canada and Mexico</i> and the Social Studies Unit <i>Salad Bowl or Melting Pot: America's Story</i>.</p>	
Feb	<b>Measuring in the Garden</b>	Applying Math in the Garden and Kitchen
	<p><b>Big Idea: Measuring is important as we plan our spring garden.</b></p> <p>The purpose of this lesson is for students to practice measuring skills in the garden. Students will estimate the length of the garden beds and use standard and non-standard units of measurement to compare the sizes of different garden beds. Students will then partition beds into square feet to prepare beds for spring planting.</p>	
Mar	<b>Activism and Food Justice</b>	Conservation and Social Justice
	<p><b>Big Idea: We can become food justice advocates by learning from food justice leaders.</b></p> <p>The purpose of this lesson is for students to understand activism by studying food justice advocates and designing a food justice campaign. This lesson supports the DCPS 2nd grade ELA Unit <i>Activism</i>.</p>	
Apr	<b>The Magic of the Garden</b>	Habitats and Lifecycles
	<p><b>Big Idea: Growing vegetables can feel magical.</b></p> <p>The purpose of this lesson is for students to explore the magic in the life cycle of a plant. They will compare two versions of <i>Jack and the Beanstalk</i> and write their own version of the folktale. Students will also plant bean seeds in small pots and observe plants at different stages of growth in the garden. This lesson supports the DCPS 2nd ELA Unit <i>Got the Message: Fables and Folktales</i>.</p>	
May	<b>Pollinators and Flowering Plants</b>	Habitats and Life Cycles
	<p><b>Big Idea: Pollinators and flowering plants depend on each other to survive.</b></p> <p>The purpose of this lesson is to deepen students' understanding of pollination and pollinators. Students will mimic bees visiting flowers, collecting nectar, and pollinating; they will further learn about pollination by examining flowers that have distinct flower parts. This lesson supports the DCPS 2nd grade Unit <i>From Seed to Plant</i>.</p>	

MONTH	TITLE	THEME
Sept	<b>The Garden Ecosystem</b>	Habitats and Life Cycles
	<p><b>Big Idea: Living and nonliving things depend on each other in an ecosystem.</b></p> <p>The purpose of this lesson is to introduce students to ecosystems through an investigation of their school garden. Students will search for abiotic and biotic elements of the school garden ecosystem and discuss how these living and nonliving elements depend on each other. This lesson supports the DCPS 3rd grade ELA Unit <i>The Living World</i> and the Science Unit <i>Environments and Traits of Organisms</i>.</p>	
Oct	<b>Importance of Photosynthesis</b>	Understanding Plant Parts
	<p><b>Big Idea: Leaves provide food for the plant.</b></p> <p>The purpose of this lesson is for students to develop an understanding of the process of photosynthesis and its importance to all living things. Students will act out photosynthesis, playing the roles of plants, sun, water, oxygen, carbon dioxide, and nutrients to understand the role of each of these elements. They will create a visual aid that explains photosynthesis and generate questions about the different types of leaves they observe in their surroundings.</p>	
Nov	<b>Investigating Plant Traits</b>	Habitats and Life Cycles
	<p><b>Big Idea: Plants inherit traits from their parent plants.</b></p> <p>The purpose of this lesson is for students to understand that all plants have traits or characteristics that they inherit from their parents. Students will compare traits among pumpkins, search for plants with traits that support survival in the garden and imagine the offspring of a number of different plants based on the traits they observe.</p>	
Dec	<b>What Makes Healthy Soil?</b>	Soil Health
	<p><b>Big Idea: Healthy soil grows healthy food.</b></p> <p>The purpose of this lesson is for students to learn about soil and its different ingredients and properties, as well as what types of soil are best for growing food. Students will dissect soil to determine the health of different soils around their school.</p>	
Jan	<b>Nutritious and Delicious</b>	Health and Nutrition
	<p><b>Big Idea: Nutritious and delicious food promotes good health.</b></p> <p>The purpose of this lesson is for students to understand the value of eating food that is both nutritious and delicious. Students will identify foods they consider to be nutritious and delicious and design a snack they would enjoy eating. They will also analyze the vitamins in a school lunch menu and search for the hidden sugars on nutrition labels.</p>	

## 3RD GRADE

MONTH	TITLE	THEME
Feb	<b>Garden Planning</b>	Applying Math in the Garden and Kitchen
	<p><b>Big Idea: Gardeners and farmers plan for their gardens during the winter months.</b></p> <p>The purpose of this lesson is for students to prepare for spring planting. They will measure the garden beds and read seed packets for spacing requirements in order to determine the number of seeds needed for square foot gardening. They will also practice calculating the area of a garden bed and use a calendar to determine when to plant seeds for a certain harvest date.</p>	
Mar	<b>Data in the Garden</b>	Applying Math in the Garden and Kitchen
	<p><b>Big Idea: Farmers and gardeners use data in many ways.</b></p> <p>The purpose of this lesson is for students to understand the many ways that gardeners and farmers use data to grow food successfully. Students will practice collecting data from their school garden and use it to create tables and graphs to communicate what they find. They will also solve real world number problems related to farming and gardening.</p>	
Apr	<b>Taking Care of the Planet</b>	Conservation and Social Justice
	<p><b>Big Idea: We can work as a community for conservation.</b></p> <p>The purpose of this lesson is for students to understand the impact of local recycling laws and waste reduction practices at their homes and schools. Students will study the recycling laws in Washington, DC and create ways to communicate that information to their school community. They will also learn how to make seed paper. This lesson supports the DCPS 3rd Grade ELA Unit <i>People, Laws and Democracy</i> and the Social Studies Unit <i>People, Politics, and Power: DC Government</i>.</p>	
May	<b>Growing with the Seasons</b>	Growing Food through the Seasons
	<p><b>Big Idea: The foods we grow locally change with the seasons.</b></p> <p>The purpose of this lesson is for students to review the concept of seasonality and to learn that the food that grows in our garden changes with the seasons while grocery stores often have the same foods throughout the year. Students will sort FoodPrints recipes by season, enjoy sampling produce from the Spring garden, and write poems about a favorite vegetable. This lesson supports the DCPS 3rd grade ELA Unit <i>Washington, D.C.: It's Right Outside My Door</i> and the Social Studies Unit <i>Living Local: DC Geography</i>.</p>	

## 4TH GRADE

MONTH	TITLE	THEME
Sept	<b>Investigating Ingredients</b>	Health and Nutrition
	<p><b>Big Idea: Understanding ingredients is important in making informed food choices.</b></p> <p>The purpose of this lesson is for students to become informed and critical consumers of packaged food. They will read ingredient lists on a variety of packaged foods and use that list to evaluate the claims and presentation on the front of the package. Students will harvest ingredients for a FoodPrints recipe from the school garden and analyze a meal by carefully examining all its ingredients.</p>	
Oct	<b>Fall Harvest Celebrations</b>	Growing Food through the Seasons
	<p><b>Big Idea: There are many ways to celebrate the fall harvest.</b></p> <p>The purpose of this lesson is to learn about traditional fall foods and different ways to celebrate the harvest. Students will trace the geographical origins of different foods that we eat during the fall and explore a variety of harvest traditions. They will also harvest fall produce from the garden. This lesson supports the DCPS 4th Grade ELA Unit <i>Early America</i> and the Social Studies Unit <i>One Land, Many Perspectives: Native North America</i>.</p>	
Nov	<b>Sprouting Seeds and Growing Clones</b>	Understanding Plant Parts
	<p><b>Big Idea: There are multiple ways plants reproduce.</b></p> <p>The purpose of this lesson is for students to study the different ways plants reproduce. They will learn about plant propagation and how tubers and bulbs clone themselves. They will also dissect seeds, bulbs, and tubers to investigate what they have in common that allows them to reproduce, and practice using succulent leaves to start new succulent plants.</p>	
Dec	<b>Recipe of Me</b>	Food Culture and Family Traditions
	<p><b>Big Idea: We are all made of many ingredients.</b></p> <p>The purpose of this lesson is for students to understand how to navigate recipes in order to successfully prepare a dish. Students will examine a variety of recipe formats, identify common elements and choose one format to write their own <i>Recipe of Me</i>. They will also illustrate a favorite recipe and explore sensory language by describing items from the garden. This lesson supports the DCPS 4th grade ELA Unit <i>My Story</i>.</p>	

## 4TH GRADE

MONTH	TITLE	THEME
Jan	<b>Why Choose Whole Grains</b>	Health and Nutrition
	<p><b>Big Idea: Whole grains have more nutrients than refined grains.</b></p> <p>The purpose of this lesson is for students to understand the importance of eating whole grains. Students will learn about the three main parts of these edible seeds and the value of eating all three parts. They will design a poster about the importance of eating whole grains, make an observational drawing of a wheat stalk and compare products made from whole and refined grains.</p>	
Feb	<b>Measuring for Mulch</b>	Applying Math in the Garden and Kitchen
	<p><b>Big Idea: Gardeners and farmers use math skills to plan for their gardens.</b></p> <p>The purpose of this lesson is for students to calculate area and perimeter to determine how much mulch needs to be purchased for the school garden paths. Students will measure the area of the entire school garden, as well as that of each raised garden bed. They will use that information to calculate the area of the garden that needs to be mulched. They will also examine angles in the garden and prepare seed tape to be planted in the spring.</p>	
Mar	<b>Root Systems and Erosion</b>	Soil Health
	<p><b>Big Idea: Water and wind erosion can be damaging to plants.</b></p> <p>The purpose of this lesson is for students to learn about the effects of erosion on our environment. Students will learn about the impact of different types of erosion on gardens and how plant growth and root systems can mitigate the effects of erosion. They will also engage in a hands-on activity that simulates erosion. The lesson supports the DCPS 4th Grade ELA Unit <i>Rocks and Minerals</i> and the Science Unit <i>Changes over Time to Earth's Surface and Resources</i>.</p>	
Apr	<b>Human Activity and Earth's Habitats</b>	Conservation and Social Justice
	<p><b>Big Idea: We impact the planet through the way we use energy.</b></p> <p>The purpose of this lesson is for students to understand how their energy use impacts the planet. Students will learn the difference between renewable and non-renewable energy sources, study a local energy plan and make personal goals for reducing their energy consumption. They will also assess their garden for habitat loss and design a habitat for native plants and animals to mitigate that loss.</p>	
May	<b>Pollination and Plant Reproduction</b>	Habitats and Life Cycles
	<p><b>Big Idea: The structures of fruits and flowers help plants reproduce.</b></p> <p>The purpose of this lesson is for students to learn about plant reproduction, pollination, and flower, fruit, and seed structures. Students will dissect flowers and determine the function of the flower structures in pollination. They will also examine fruits and seeds in order to make connections between flowers, fruits, and seeds and their roles in plant reproduction.</p>	

## 5TH GRADE

MONTH	TITLE	THEME
Sept	<b>Cooking with Independence</b>	Health and Nutrition
	<p><b>Big Idea: Following directions is critical to independence</b></p> <p>The purpose of this lesson is for students to think critically about what it means to be independent and why it is important to follow directions. They will take a “quiz” to test how well they follow directions. Students discuss what it means to them to be independent, and how this translates to time spent in the kitchen and garden during FoodPrints.</p>	
Oct	<b>Evolving Foodways</b>	Food History and Technology
	<p><b>Big Idea: Foodways evolve as people bring their food traditions to new places.</b></p> <p>The purpose of this lesson is to study how the movement of people in the United States impacted their foodways or eating and cooking practices. Students will learn how the foodways of Native Americans, enslaved Africans, and European Colonists evolved during the time of Western Expansion. They will practice traditional methods of making flour from a variety of nuts and grains, drying herbs, and saving seeds. This lesson connects to the DCPS 5th grade ELA Unit <i>Westward Expansion</i> and Social Studies Unit, <i>Problems and Perspectives on Progress: Westward Expansion</i>.</p>	
Nov	<b>Scaling Recipes</b>	Applying Math in the Garden and Kitchen
	<p><b>Big Idea: By scaling a recipe, we can adjust the quantities we prepare.</b></p> <p>The purpose of this lesson is for students to understand how and why cooks need to adjust or scale their recipes. Students will explore different reasons chefs adjust recipes and practice scaling recipes up or down for different situations. They will scale a few recipes for a FoodPrints cafe and work with different units of measurement to understand equivalencies.</p>	
Dec	<b>What the World Eats</b>	Food Culture and Family Traditions
	<p><b>Big Idea: We can celebrate and learn from the rich variety of food cultures around the world.</b></p> <p>The purpose of this lesson is for students to compare food access and food choices around the world. Using the book <i>What the World Eats</i> by Faith D’Aluisio and Peter Menzel as an anchor, students will analyze the weekly groceries of one family and compare their findings with their own diets and with families from different parts of the world.</p>	
Jan	<b>Garden and Kitchen Inventions</b>	Food History and Technology
	<p><b>Big Idea: Inventions and Innovations help make tasks more efficient.</b></p> <p>The purpose of this lesson is for students to explore the role of inventions and innovations in the garden and kitchen. Students will design their own invention after carefully observing the innovative features of tools in their kitchen classroom and school garden. They will also explore biomimicry and look at examples of inventions that were inspired by nature. This lesson supports the 5th Grade DCPS ELA Unit <i>The Process of Discovery and the Development of Inventions</i>.</p>	

## 5TH GRADE

MONTH	TITLE	THEME
Feb	<b>Food Chains</b>	Habitats and Life Cycles
	<p><b>Big Idea: Food, and the energy it provides, can be traced back to the sun through plants.</b></p> <p>The purpose of this lesson is for students to explore food chains and investigate how living things acquire energy. Students will learn the roles of producers, consumers and decomposers in the food chain and search for examples of each one in the garden. They will also create food chains with recipe ingredients to further explore how we get energy from the sun.</p>	
Mar	<b>Decomposers in the Garden</b>	Habitats and Life Cycles
	<p><b>Big Idea: Decomposers are an integral part of nature’s recycling.</b></p> <p>The purpose of this lesson is for students to understand the important role of decomposers in composting. They will search for decomposers in the garden and build their own compost jars to be able to closely watch the process of decomposition. Through a close reading of the Connected Text, they will learn about the important roles of tiny microbes in our diets and in the natural world.</p>	
Apr	<b>Water Conservation</b>	Conservation and Social Justice
	<p><b>Big Idea: We can conserve water through our actions.</b></p> <p>The purpose of this lesson is for students to understand the importance of water protection and water conservation. Students will design and build their own water filtration system and study water usage in their garden. They will also engage in a shared reading of the book <i>Why Water’s Worth It</i> by Lori Harrison and write water themed poetry. This lesson supports the DCPS 5th grade Science Unit <i>Human Impact on the Earth’s Systems</i>.</p>	
May	<b>Celebrating Food Stories</b>	Food Culture and Family Traditions
	<p><b>Big Idea: Food tells the story of who we are.</b></p> <p>The purpose of this lesson is for students to celebrate their own Food Stories and appreciate the diversity in the foods we eat. Students will study a variety of food traditions from around the world, write and discuss their own food stories and create a food tradition with classmates. They will reflect and celebrate their years of gardening, cooking and learning in FoodPrints.</p>	