

LESSON PLANS	GRADE LEVEL	SUBJECTS	SKILLS	BRIEF DESCRIPTION
The Plant-n-Me	PreK-3	Science, Health, Lang. Arts	Comparing similarities and differences, developing vocab., discussing, identifying, listening, observing, role playing, valuing	By discussing, observing, and role playing, students learn that plants and people have similar needs for survival.
Seed Surprises	PreK-3	Science, Lang. Arts	Brainstorming, classifying, collaborating, comparing similarities and differences, demonstrating, describing, developing vocab., identifying, observing, sorting	By sorting and planting seeds, students discover seeds come in a variety of sizes, shapes, and colors, as well as produce plants.
Fruits and Veggies	PreK-4	Science, Lang. Arts	Applying, classifying, comparing similarities and differences, developing vocab., discussing, identifying, listening, observing, predicting, sorting	Students identify and compare fruits and other edible plant parts through a fast-paced game.
Schoolground Caretakers	PreK-4	Science, Lang. Arts, Soc. Studies	Analyzing, applying, brainstorming, classifying, collecting, comparing similarities & differences, comprehending, cooperating, describing, developing self-understanding, discussing, evaluating, following directions, identifying, inferring, interviewing, listening, locating, observing, perceiving spatial relations, predicting, solving problems, sorting, taking responsibility, valuing, writing	Students observe and collect items on the schoolground, choose their own special place, and work with school groundskeepers to be respectful caretakers of their outdoor environment.
Let's Celebrate	PreK-6	Soc. Studies, Math, Lang. Arts	Collaborating, collecting data, communicating, comparing similarities and differences, computing, creating graphs, describing, developing cultural awareness, developing self-understanding, discussing, interviewing, recording, thinking creatively, valuing	Students explore in their own lives and in the lives of others the role of celebrations and important foods involved, with a focus on corn.
Seasons Through the Year	PreK-6	Lang. Arts, Science, Soc. Studies	Classifying, communicating, comparing similarities and differences, constructing media, cooperating, describing, developing vocab., discussing, drawing, identifying, listening, matching, observing, perceiving	To build awareness of seasonal change, students use their own birth dates, a comparison of seasons in different settings, and self-made books.

			special relations, reading, sequencing, sorting, writing	
Tomatoes to Ketchup, Chickens to Omelettes	PreK-6	Lang. Arts, Science, Soc. Studies, Consumer Ed.	Analyzing, brainstorming, classifying, collaborating, collecting, constructing media, cooperating, developing vocab., discussing, evaluating, identifying, matching, performing, sorting, synthesizing	Students build connections between raw and processed food items by cutting out pictures, matching pictures, and making collages.
We're into Pumpkins	PreK-6	Math, Science, Lang. Arts, Soc. Studies	Collaborating, collecting data, comparing similarities & differences, concluding, creating & interpreting graphs, describing, developing cultural awareness, developing vocab., estimating, generalizing, measuring, observing, predicting, recording	Through hands-on interdisciplinary activities, students learn about pumpkins as fruits and as food sources.
Don't Use It All Up!	PreK-12	Lang. Arts, Math, Science, Soc. Studies	Describing, discussing, identifying, inferring, observing, sequencing, solving problems, taking responsibility, thinking creatively, understanding cause and effect, valuing	Students participate in a sponge demonstration to discover that people are consumers of resources.
Germ Busters	PreK-12	Health, Family & Consumer Science, Lang. Arts, Science, Soc. Studies, Math, Physical Education	Analyzing, comparing similarities & differences, concluding, controlling variables, demonstrating, describing, discussing, drawing, experimenting and testing hypotheses, inferring, listening, observing, perceiving time, predicting, reasoning, recording, writing	Through a controlled experiment, students learn one way bacteria can be spread and the importance of hand-washing for personal hygiene and food safety.
Lunchtime Favorites	PreK-12	Science, Health, Consumer Ed., Math, Soc. Studies, Geography	Analyzing, classifying, collaborating, collecting data, comparing similarities and differences, discussing, drawing, explaining, identifying, listing, reasoning, sorting	Students trace the sources of their food from lunch to learn the interdependence of plants, animals and people. They explore the importance of eating a variety of foods from plants and animals and discover how culture influences food choices.
Trash Bashing	1-12	Science, Consumer Ed.	Analyzing, collaborating, communicating, comparing similarities and differences,	By conducting a small group sorting activity, students learn the

			developing vocab., discussing, identifying, listing, sorting, valuing, writing	importance of reducing, reusing, and recycling solid waste. Students then develop plans to change personal behaviors.
Root Root for Life	2-6	Science, Lang. Arts	Analyzing, applying, collaborating, collecting data, comparing similarities and differences, concluding, cooperating, describing, developing vocab., discussing, drawing, evaluating, explaining, following directions, identifying, inferring, observing, predicting, recording, understanding cause & effect, writing	Students discover the importance of roots to plants, soil, and people during hands-on learning-station activities.
Buzzy, Buzzy Bee	2-7	Science, Math, Lang. Arts, Physical Ed.	Applying, comparing similarities & differences, computing, cooperating, creating and improvising, creating, interpreting graphs, describing, discussing, observing, recording, role playing, understanding cause and effect	Students play a game in which they pretend to be honey bees and apple trees. In the process, they learn about plant pollination.
From Apple Cores to Healthy Soil	2-8	Science	Comparing similarities & differences, concluding, controlling variables, demonstrating, developing vocab., discussing, experimenting & testing hypotheses, interpreting, listing, observing, predicting, recording, role playing, writing	A composting experiment reveals to students how soil organisms, temperature, air, and water are able to decompose organic waste and enrich soil.
Perc Through the Pores	3-6	Science	Analyzing, comparing similarities & differences, concluding, cooperating, demonstrating, describing, discussing, inferring, listening, observing, recording, role playing	By becoming soil particles and water droplets, students simulate soil particle size & their pore space.
Banking on Seeds	3-7	Science, Soc. Studies, History	Analyzing, comparing similarities & differences, describing, developing vocab., identifying, listing, observing, planning, predicting, taking responsibility, understanding cause and effect, valuing	The critical role that seeds play in the world is explored through creating a seed bank and comparing uses of seeds.
“Could It Be	3-8	Science, Health,	Analyzing, applying,	Students experiment

Something They Ate?"		Lang. Arts, Family & Consumer Science	classifying, collaborating, comparing similarities & differences, comprehending, concluding, controlling variables, describing, discussing, evaluating, experimenting & testing hypotheses, identifying, inferring, listening, matching, reading, recording, solving problems, sorting, synthesizing, understanding cause & effect, writing	with the growth of microbes and predict who could become ill from eating contaminated food by analyzing the food-handling behavior of a group of picnickers.
Tree-mendous!	3-8	Lang. Arts, Science, Soc. Studies	Analyzing, applying classifying, collaborating, communicating, comprehending, computing, concluding, cooperating, describing, developing vocab., identifying, inferring, listening, predicting, recognizing relations, sorting, thinking creatively, valuing, writing	Students play a fast-paced word classification game that helps them gain an appreciation for the variety of ways people use and benefit from trees.
Expression Connection	3-12	Lang. Arts, Soc. Studies, Math	Brainstorming, collaborating, communicating, comparing similarities & differences, computing, cooperating, describing, developing vocab., explaining, listening, locating, making judgments, recognizing relations, recording, thinking creatively, writing	Small groups of students play a word game that builds new connections between farming, food, land, people and themselves. They then write poetry about those connections.
Gala Fiesta Jamboree	3-12	Soc. Studies, Geography, History, Lang. Arts, Math, Science	Analyzing, applying, collaborating, collecting data, communicating, comparing similarities & differences, creating graphs, describing, developing cultural awareness, developing self-understanding, discussing, generalizing, identifying, interviewing, listening, listing, predicting, public speaking, recording, researching, summarizing, valuing, writing	Students explore the role of celebrations in diverse cultures, their class, and the local community. After interviewing community members about favorite celebrations, they research various cultures' harvest festivals and prepare a celebration presentation for the class.
Investigating Insects	3-12	Science	Collaborating, comparing similarities & differences, comprehending, describing, developing vocab., discussing, drawing, evaluating,	Students become entomologists by observing insects in their nearby surroundings. After

			identifying, locating, matching, observing, recording	observing & analyzing, they learn by playing a game how some insect interactions can be useful to people.
Your Schoolground Through New Eyes	3-12	Science, Soc. Studies, Lang. Arts, Career Education	Analyzing, applying collaborating, collecting data, comparing similarities & differences, comprehending, cooperating, creating maps, describing, developing self-understanding, discussing, drawing, estimating, evaluating, identifying, inferring, interviewing, listening, locating, measuring, observing, perceiving spatial relations, recognizing relations, recording, solving problems, synthesizing, taking responsibility, valuing, visualizing, writing	Students develop and sharpen observation skills to discover new details about their schoolground and form fresh perceptions of their outdoor space.
Gifts from the Sun	4-8	Drama, Science	Applying, collaborating, comprehending, cooperating, creating and improvising, demonstrating, describing, developing vocab., discussing, listening, perceiving special relations, performing, role playing, sequencing, synthesizing, understanding cause and effect, visualizing	Through creating and improvising, students learn the components and basic process of photosynthesis.
Till We or Won't We?	4-9	Science, Soc. Studies	Analyzing, applying, collaborating, collecting data, comparing similarities and differences, comprehending, concluding, controlling variables, cooperating, discussing, evaluating, experimenting and testing hypotheses, following directions, measuring, observing, predicting, recording, synthesizing, understanding cause and effect	Students construct and perform experiments simulating rain on a field, investigating how soil preparation and tillage techniques and mulches affect soil erosion and water runoff.
Breads Around the World	4-12	Soc. Studies, Family & Consumer Science, Geography, History, Health, Science	Collaborating, comparing similarities and differences, comprehending, concluding, cooperating, creating charts, describing, developing cultural awareness, developing vocab.,	Students learn the cultural and nutritional significance of bread throughout the world by working in groups to solve a logic-matrix

			discussing, following directions, generalizing, identifying, inferring, locating, matching, reading, reading maps, reasoning, solving problems	activity.
By the Way	4-12	Science, Math	Applying, classifying, collaborating, communicating, comparing similarities & differences, cooperating, describing, discussing, formulating questions, identifying, listening, observing, predicting, solving problems, sorting, thinking creatively, writing	Teams of students solve a mystery about cattle by products. Students formulate questions about the mystery. Then they think critically about relations among various products made from cattle.
Cleared for Takeoff!	4-12	Science, Lang. Arts, Career Education	Analyzing, collaborating, communicating, comprehending, cooperating, creating and improvising, describing, developing vocab., discussing, following directions identifying, listening, solving problems, summarizing, writing	Students learn about the important roles aviation plays in agriculture, as well as the requirements for a career in aviation.
From Fiber to Fashion	4-12	Soc. Studies, Science, Consumer Ed., Career Ed., Family & Consumer Science, Geography	Analyzing, brainstorming, collaborating, collecting data, comparing similarities and differences, constructing media, developing self-understanding, evaluating, generalizing, identifying, listing, observing, public speaking, recording, researching, sequencing, synthesizing, writing	Students study clothing labels, research fabric production, and evaluate consumer option for their clothing.
It All Starts with A	4-12	Lang. Arts, Math, Soc. Studies	Analyzing, applying categorizing, classifying, collaborating, collecting data, communicating, comparing similarities and differences, comprehending, computing, cooperating, creating and reading graphs, describing, developing self-understanding, discussing, evaluating, explaining, following directions, listening, organizing, planning, predicting, recognizing relations, recording, taking responsibility	Students conduct survey to learn what agriculture provides to people. They organize, simplify, and communicate their findings using tallies, frequency tables, and histo-grams.
Less Elbow Room	4-12	Math, Soc. Studies, Science	Collaborating, computing, concluding, cooperating,	Students experience a simulation of the

			describing, discussing, evaluating, explaining, inferring, interpreting graphs, observing, perceiving time, predicting, recording, synthesizing	progressive crowding over time as a population grows exponentially.
Nail by Nail, Board by Board	4-12	Science, Career Ed., Soc. Studies, Lang. Arts, Industrial Ed.	Brainstorming, classifying, collecting data, comparing similarities and differences, cooperating, describing, developing vocab., discussing, identifying, listening, listing, observing, recording, reporting, researching	Students explore what shelters are made of, where building materials come from, and associated careers.
Step by Step	4-12	Soc. Studies, Lang. Arts, Career Ed.	Brainstorming, collaborating, communicating, comprehending, cooperating, describing, developing vocab., discussing, explaining, following directions, identifying, inferring, listening, listing, reasoning, reporting, sequencing, writing	Students study the sequence of production steps to discover the resources required and the variety of careers involved in taking a raw food from the field to the consumer.
What's the Shape of Your Diet?	4-12	Health, Science, Math, Family & Consumer Science, Consumer Ed.	Analyzing, applying, classifying, collaborating, collecting data, comparing similarities and differences, comprehending, computing, developing self-understanding, developing vocab., discussing, evaluating, following directions, identifying, listing, organizing, recording, taking responsibility, writing	Students collect data on the foods they eat over a 24-hour period and compare their food consumption to the Food Guide Pyramid to determine if their food choices create a nutritionally sound diet.
Calorie Counting	5-9	Health, Math, Science	Analyzing, applying classifying, collaborating, collecting data, comprehending, computing, developing self-understanding, developing vocab., discussing, estimating, evaluating, following directions. listing, measuring, organizing, recording, taking responsibility, writing	Students discover how their actual caloric intake compares with their caloric expenditure and ways in which their choices of food and activity can affect their energy balance.
What Will the Land Support?	5-12	Science, Math, Soc. Studies	Collaborating, communicating, computing, concluding, describing, discussing, estimating, evaluating, listening, observing, perceiving time relations, predicting, recording, role playing, solving	Students play a board game to simulate changes in land use. They discover the effects of change on the carrying capacity of the land.

			problems, thinking creatively, understanding cause and effect	
To Whom It May Concern	6-12	English (Communication), Debate, Government, Consumer Ed.	Analyzing, applying, brainstorming, classifying, collaborating, collecting data, communicating, comparing similarities and differences, comprehending, concluding, debating, developing self-understanding, discussing, empathizing, evaluating, identifying, inferring, interpreting, listening, reading, recording, researching, synthesizing, taking responsibility, valuing, writing	After conducting research, students write a letter expressing their opinions about a controversial issue. Students either choose their own issue or use the attached example about the labeling of genetically engineered foods.
Almost Six Billion and Still Growing	7-12	Math, Science, Soc. Studies, History	Analyzing, applying, collaborating, collecting data, communicating, comparing similarities and differences, comprehending, computing, concluding, creating, interpreting, and reading charts and graphs, developing vocab., discussing, evaluating, inferring, listening, perceiving time, predicting, recording	Students graph historical and projected world populations to understand that human populations grow exponentially and examine the many circumstances that affect birth rates and death rates.
Piecing Together Population Patterns	8-12	World History, Geography, Sociology, Science, Math , English	Analyzing, applying, brainstorming, collaborating, comparing similarities and differences, concluding, crating and reading charts and graphs, developing vocab., discussing, evaluating, inferring, interpreting, organizing, public speaking, reporting, researching, summarizing, synthesizing	Students analyze selected demographic data about various countries and regions of the world. They then prepare a group presentation about the implications of their findings on a specific country's food, economics, and natural resources.
Cows or Condos?	9-12	Soc. Studies (American History), Geography, Government, Debate, Economics, Environmental Studies, Philosophy	Analyzing, collaborating, debating, discussing, evaluating, explaining, identifying, public speaking, reading, researching, sequencing, solving problems, taking responsibility, valuing	After reading a case study, students use a problem solving model to understand the complex issues of urbanization of agricultural land. Then they analyze similar situations in their areas and pose possible solutions.
Chewsy	PreK-4	Health, Science,	Analyzing, classifying,	Students learn about the

Choices		Lang. Arts, Drama, Math, Art	collaborating, collecting, communicating, comparing similarities and differences, cooperating, discussing, evaluating, following directions, identifying, listening, matching, reasoning, recording	five food groups through the use of puppets and their participation in a play about dinner at Rachel and Brian's house.
Feed the Need	3-12	Soc. Studies, Lang. Arts, Health, Math	Analyzing, applying, brainstorming, classifying, collaborating, collecting data, communicating, cooperating, describing, developing cultural awareness, discussing, formulating questions, identifying, inferring, interviewing, listening, listing, locating, organizing, planning, public speaking, recording, reporting, summarizing, taking responsibility, understanding cause and effect, valuing, writing	Students experience first hand the distribution of income in the United States and world as it relates to buying food. They investigate local and international programs that work to help feed hungry people, and they write an action plan for their involvement in a program.
Amazing Grazing	4-6	Soc. Studies, Nutrition, Environmental Science	Analyzing, applying, comparing similarities and differences, concluding, critical thinking, evaluating, interpreting, mapping, map reading, observing, reading data, synthesizing, reasoning, solving problems, understanding cause and effect	Students learn about the efficient use of renewable resources to meet human needs in this lesson. It focuses on grazing as an example of one significant renewable resource.
In Harmony	4-6	Soc. Studies, Geography, Science	Analyzing, applying, comparing similarities and differences, critical thinking, evaluating, interpreting, map reading, observing, reading data, solving problems, understanding cause and effect	Students learn about the limitations of land (based upon soil type, topography, climate, geography) and the impact these limitations have upon the suitability for use as cropland, grazing land, home sites, transportation or commercial use in this lesson.
From Sea to Shining Sea	4-9	Soc. Studies, Math, Geography	Analyzing, brainstorming, classifying, collaborating, communicating, comparing similarities and differences, computing, concluding, creating graphs, developing vocab.,	Students complete a United States map showing the locations of the states, their capitals, and the top 5 agricultural

			discussing, drawing, following directions, identifying, listing, locating, public speaking, reasoning, recognizing relations, sequencing, writing	commodities in each state. They then identify and graph the top 5 commodities nationally after compiling the info.
Be Label Able	4-12	Science, Math, Soc. Studies, Consumer Ed., Health, Family & Consumer Science	Analyzing, applying, brainstorming, classifying, collaborating, communicating, comparing similarities and differences, concluding, constructing media, cooperating, creating, interpreting and reading graphs, developing vocab., discussing, explaining, following directions, inventing, organizing, planning, public speaking, reading, researching, role playing, synthesizing, thinking creatively, understanding cause and effect	Students graph the weight of several nutritional components identified on cereal box labels to select the healthiest cereal. They use this information to design and market a new healthy cereal.
What Piece of Pie?	4-12	Math, Economics, Consumer Ed., Family & Consumer Science, Business Ed., Soc. Studies	Analyzing, brainstorming, collaborating, comparing similarities and differences, comprehending, creating, reading, and interpreting charts and graphs, developing vocab., discussing, estimating, explaining, following directions, predicting, reasoning, recording, synthesizing, understanding cause and effect, using numbers	Students explore the economics of consumer food products by analyzing who gets what portion of the price we pay for our food.
Why I Buy	4-12	Consumer Ed, Math, Soc. Studies, Lang. Arts	Analyzing, applying, brainstorming, collaborating, collecting data, comparing similarities and differences, computing, concluding, creating, interpreting, and reading graphs, discussing, evaluating, experimenting and testing hypothesis, explaining, formulating questions, identifying, interviewing, listening, listing, making judgments, public speaking, recording, writing	In this lesson Students are made aware of the external influences they receive when making purchasing decisions. After examining those influences, the students will conduct their own consumer preference trials. After collecting, graphing and analyzing the data, students decide which brand of a product they will buy and why.
Global Grocery Bags	5-12	Math, Geography, Soc. Studies, Family	Analyzing, brainstorming, collaborating, communicating,	Students learn that people around the

		& Consumer Ed.	comparing similarities and differences, concluding, creating and interpreting graphs, developing cultural awareness, discussing, estimating, evaluating, following directions, inferring, interpreting, locating, public speaking, reading, reading graphs, reporting, sequencing, summarizing, using numbers	world spend different percentages of their annual income on food and why is this so.
Soil's Not Trivial	5-12	Lang. Arts, Communication, Soc. Studies, Government, History, Earth Science	Analyzing, applying, brainstorming, collaborating, communicating, comprehending, cooperating, developing vocab., discussing, following directions, formulating questions, listening, locating, critical reading, solving problems, thinking creatively, writing	Using facts about the Dust Bowl, students write questions and play a trivia activity focused around the establishment of a national soil conservation program and the importance of soil. Students then explore and/or develop a plan to address a local soil conservation issue.
Go, Go, H₂O!	6-8	Science, Soc. Studies, History	Analyzing, applying collaborating, communicating, comprehending, cooperating, creating and improvising, demonstrating, describing, designing experiments, discussing, drawing, evaluating, following directions, inventing, modeling, observing, organizing, predicting, reporting, solving problems, creative thinking, understanding cause & effect	Students design, describe, create, and experiment with an artificial system of moving water from a source to an area of need, as in irrigation.
Loco for Cocoa	6-12	Geography, History, Soc. Studies, Lang. Arts, Family & Consumer Sciences, Math	Applying, collaborating, communicating, comparing similarities and differences, comprehending, cooperating, creating and reading maps, describing, discussing, explaining, following directions, listening, listing, locating, mapping skills, measuring, observing, organizing, perceiving time, planning, public speaking, sequencing, thinking creatively, writing	Students discover how chocolate traveled the world by creating a timeline and map, preparing and tasting chocolate as an Aztec drink, and playing a traditional Mexican rhythm game. Students also learn how chocolate is produced from cacao, and where cacao is grown today. Students also use language to

				express their thoughts, about chocolate and its history.
Mighty Macros	6-12	Health, Math, Science, Consumer Ed.	Applying, classifying, collaborating, collecting data, comparing similarities and differences, computing, describing, discussing, evaluating, identifying, observing, organizing, predicting, recording, writing	Students conduct simple food experiments and collect data about their personal food choices to learn how the foods they eat satisfy the body's nutritional needs for the macronutrients: carbohydrates, protein & lipids.
Trading Favorites	7-12	Soc. Studies, Geography, Economics	Analyzing, applying, collaborating, concluding, cooperating, developing cultural awareness, discussing, explaining, gathering info., inferring, interpreting, organizing, recognizing relations, recording, role playing, spatial visualizing, summarizing	Students use lines of latitude & longitude to locate the homes where their trading partners live. They are matched with other students whose countries grow their favorite foods. They become the export expert for one commodity from a country they will represent, working together with their trading partner to identify possible reasons for trade.
Managing Pests	8-12	Science (Biology, Environmental Science), Soc. Studies, Agriculture, Horticulture	Analyzing, applying, brainstorming, classifying, collaborating, communicating, comparing similarities and differences, comprehending, concluding, creating charts, discussing, evaluating, following directions, identifying, listening, public speaking, reading, reasoning, reporting, solving problems, summarizing, synthesizing, thinking creatively, understanding cause and effect	Students analyze the advantages and disadvantages of pest management techniques and use a problem solving model to evaluate alternatives for specific pest management issues.