

Hamilton Heights School Corporation 7th/8th Grade Agri Science Year 1 Curriculum Map

Course Title: 7th/8th Grade Agri Science	Quarter 1	Academic Year: 2025-2026
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Essential Questions How does Agriculture relate to everyday life? What is the importance of agriculture to the economy? What agricultural career opportunities exist?						
Unit Name	Total Days	Standards Number	Knowledge Objectives	Skills Objectives	Specific Assessments	Specific Resources
Why Agriculture?	2	EA-9.1	<ul style="list-style-type: none"> Nature and scope of agriculture in society 	Identify ways agriculture relates to your life	Classroom Expectations Review Source Search Game	Classroom Expectations Sheet Ag in the Classroom - Source Search Lesson
Food Preservation & Preparation	9	EA-7.1 EA-9.1	<ul style="list-style-type: none"> Explore how foods are grown & processed Explore the scope of agriculture in society <p>Vocabulary: Preserve, Prepare, Process,</p>	Describe and compare various methods of food preservation	Make pickles with given recipe Food Storage and Preparation Knowledge Check	Pickle Recipe Ag in the Classroom - Fruits and Vegetables: The Right Pick for Vitamins and Minerals EdPuzzle: Mt. Olive Pickles Virtual Tour

			Produce, Fresh/Raw, Freezing, Pickling, Canning, Drying, Steaming, Microwaving, Farm to Fork			
Plant Science	11	EA-3.1 EA-3.3 EA-9.2	<ul style="list-style-type: none"> Basic plant structure Basic plant growth needs <p>Vocabulary: Photosynthesis, stem, roots, leaves, seed, flower, fruit, vegetable, capillary action, root pressure, transpiration, greenhouse</p>	Use STEM/Engineering Design Process to explore plant needs and plant structures	Greenhouse STEM Challenge Capillary Action STEM Challenge	Greenhouse STEM Challenge Capillary Action STEM Challenge Capillary Action in the WonderLab Capillary Action in Action EdPuzzles Jeopardy Review Game
Farm to Fork	20	EA-5.3 EA-5.4 EA-7.1 EA-9.3	<ul style="list-style-type: none"> Explain common uses of livestock Identify common species and breeds of livestock Explore how various foods are grown and 	Describe the purpose of dairy cattle breeds Identify 5 breeds of dairy cattle Describe the Farm to Fork	Create an advertisement for a new dairy breed Cheese Making Process Choice Board Farm to Fork/Dairy	AgExplore Culver's Farm to Fork Lesson Plans including worksheets & virtual tour Dairy Cattle Blookets Dairy Cattle Gimkits

			<p>produced through the farm to plate process.</p> <ul style="list-style-type: none"> Explore those qualities, attributes, and skills necessary to succeed in a chosen agricultural career <p>Vocabulary: Dairy Cattle, Dairy Breeds - Holstein, Jersey, Brown Swiss, Ayrshire, Guernsey, Custard vs. Ice Cream, Creamery, Farm to Fork, Curds, Whey, Rennet, Pasturization, Homogenization, Starter Cultures (bacteria)</p>	process of dairy products	Knowledge Check	<p>Traders Point Creamery Field Trip</p> <p>EdPuzzle: Farm Tour - Bees & Dairy Cattle</p> <p>Cheese Making Video & Worksheet</p> <p>Cheese Making Lab</p> <p>Cheese Making EdPuzzle</p> <p>Chocolate Making EdPuzzle</p> <p>Cheese Making Choice Board & Rubric</p> <p>Jeopardy Review Game</p>
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Course Title: 7th/8th Grade Agri Science	Quarter 2	
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<p>Essential Questions</p> <p>How does Agriculture relate to everyday life?</p> <p>What is the importance of agriculture to the economy?</p> <p>What agricultural career opportunities exist?</p>

Animal Science	10	EA-5.1 EA-5.3 EA-5.4	<ul style="list-style-type: none"> Common uses of animals Common species and/or breeds of livestock Livestock related careers <p>Vocabulary: Rabbitry, Buck, Doe, Kit, Boar, Sow, Piglet</p>	<p>Identify common uses of rabbits</p> <p>Identify 5 common rabbit breeds</p> <p>Identify 5 common breeds of swine</p> <p>Explore careers in the swine industry</p>	<p>Rabbit Knowledge Check</p> <p>Swine Careers Project</p>	<p>4-H Leaders Guide, Canada 4-H</p> <p>Indiana 4-H Rabbit Project Manual</p> <p>Guest Speaker with live animals</p> <p>RealityWorks Slides presentations</p> <p>RealityWorks Guided Notes</p> <p>EdPuzzle</p>
Power, Structure, and Technical Systems	4-6	EA-8.1	<ul style="list-style-type: none"> Recognize and apply safety principles as they relate to Ag and everyday life. <p>Vocabulary: Hazardous, Fatality, Safety Features, Safety Precautions, Operator, Fatigue</p>	<p>Identify basic hand tools</p> <p>Identify uses of basic hand tools</p> <p>Apply shop safety principles to everyday life</p>	Bird Feeder	Bird Feeder Plans

Course Title: 7th/8th Grade Agri Science

Quarter 3

Academic Year: 2025-2026

Essential Questions

How does Agriculture relate to everyday life?

What is the importance of agriculture to the economy?

What agricultural career opportunities exist?

Unit Name	Total Days	Standards Number	Knowledge Objectives	Skills Objectives	Specific Assessments	Specific Resources
Why Agriculture?	2	EA-9.1	<ul style="list-style-type: none"> Nature and scope of agriculture in society 	Identify ways agriculture relates to your life	Classroom Expectations Review Source Search Game	Classroom Expectations Sheet Ag in the Classroom - Source Search Lesson
Plant Science	11	EA-3.1 EA-3.3 EA-9.2	<ul style="list-style-type: none"> Basic plant structure Basic plant growth needs Identify basic soil properties Vocabulary: Photosynthesis, stem, roots, leaves, seed, flower, fruit, vegetable, capillary action, root pressure, transpiration, greenhouse, Horizons, Clay, Sand, Silt, Bedrock, Parent Material, Subsoil, Topsoil,	Use STEM/Engineering Design Process to explore plant needs and plant structures Identify 5 soil layers Identify 3 soil particles	Greenhouse STEM Challenge Capillary Action STEM Challenge Edible soil lab Soil Science Knowledge Check	Greenhouse STEM Challenge Capillary Action STEM Challenge Capillary Action in the WonderLab Capillary Action in Action EdPuzzles

			Organic Matter			Jeopardy Review Game
Food Preservation & Preparation	9	EA-7.1 EA-9.1	<ul style="list-style-type: none"> Explore how foods are grown & processed Explore the scope of agriculture in society <p>Vocabulary: Preserve, Prepare, Process, Produce, Fresh/Raw, Freezing, Pickling, Canning, Drying, Steaming, Microwaving, Farm to Fork</p>	Describe and compare various methods of food preservation	<p>Make pickles with given recipe</p> <p>Food Storage and Preparation Knowledge Check</p>	<p>Pickle Recipe</p> <p>Ag in the Classroom - Fruits and Vegetables: The Right Pick for Vitamins and Minerals</p> <p>EdPuzzle: Mt. Olive Pickles Virtual Tour</p>
Animal Science	10	EA-5.1 EA-5.3 EA-5.4	<ul style="list-style-type: none"> Common uses of animals Common species and/or breeds of livestock Livestock related careers <p>Vocabulary: Boar, Sow, Piglet, Swine, Digestion, Monogastric Digestive System, Mouth,</p>	<p>Identify 5 common breeds of swine</p> <p>Explore careers in the swine industry</p>	Swine Careers Project	<p>RealityWorks Slides presentations</p> <p>RealityWorks Guided Notes</p> <p>EdPuzzle</p> <p>RealityWorks 3D Pig Model</p>

			Stomach, Esophagus, Small Intestine, Large Intestine, Anus			
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Course Title: 7th/8th Grade Agri Science	Quarter 4	
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Essential Questions How does Agriculture relate to everyday life? What is the importance of agriculture to the economy? What agricultural career opportunities exist?						
Animal Science	10	EA-5.1 EA-5.3 EA-5.4	<ul style="list-style-type: none"> • Common uses of animals • Common species and/or breeds of livestock • Livestock related careers Vocabulary: Rabbitry, Buck, Doe, Kit	Identify common uses of rabbits Identify 5 common rabbit breeds	Rabbit Knowledge Check	4-H Leaders Guide, Canada 4-H Indiana 4-H Rabbit Project Manual Guest Speaker with live animals
Farm to Fork	20	EA-5.3 EA-5.4 EA-7.1 EA-9.3	<ul style="list-style-type: none"> • Explain common uses of livestock • Identify common species and breeds 	Describe the purpose of dairy cattle breeds Identify 5 breeds of dairy	Create an advertisement for a new dairy breed Cheese Making Process	AgExplore Culver's Farm to Fork Lesson Plans including worksheets & virtual tour

			<p>of livestock</p> <ul style="list-style-type: none"> Explore how various foods are grown and produced through the farm to plate process. Explore those qualities, attributes, and skills necessary to succeed in a chosen agricultural career <p>Vocabulary: Dairy Cattle, Dairy Breeds - Holstein, Jersey, Brown Swiss, Ayrshire, Guernsey, Custard vs. Ice Cream, Creamery, Farm to Fork, Curds, Whey, Rennet, Pasturization, Homogenization, Starter Cultures (bacteria)</p>	<p>cattle</p> <p>Describe the Farm to Fork process of dairy products</p>	<p>Choice Board</p> <p>Farm to Fork/Dairy Knowledge Check</p>	<p>Dairy Cattle Blookets</p> <p>Dairy Cattle Gimkits</p> <p>Traders Point Creamery Field Trip</p> <p>EdPuzzle: Farm Tour - Bees & Dairy Cattle</p> <p>Cheese Making Video & Worksheet</p> <p>Cheese Making Lab</p> <p>Cheese Making EdPuzzle</p> <p>Chocolate Making EdPuzzle</p> <p>Cheese Making Choice Board & Rubric</p> <p>Jeopardy Review Game</p>
Power, Structure, and Technical Systems	4-6	EA-8.1	<ul style="list-style-type: none"> Recognize and apply safety principles as they relate to Ag and everyday life. 	<p>Identify basic hand tools</p> <p>Identify uses of basic hand tools</p>	<p>Bird Feeder</p>	<p>Bird Feeder Plans</p>

			Vocabulary: Hazardous, Fatality, Safety Features, Safety Precautions, Operator, Fatigue	Apply shop safety principles to everyday life		
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