

Conneaut School District—Agriculture Education Curriculum Map

Agriculture Education IV Grades 11-12 90 minutes/18 weeks

Time-Line	CONTENTS	STANDARDS	SKILLS	ASSESSMENTS
1 wks.	<p style="text-align: center;">Introduction</p> <ul style="list-style-type: none"> • Introduction to Agriculture • Shop orientation and Procedures 	<p>4.4 10.3</p>	<ul style="list-style-type: none"> • Local, national and global aspects of Agriculture • Economic importance • Shop procedures • Safety practices 	<ul style="list-style-type: none"> • Written tests and quizzes • Safety demonstration • Nocti
1.5 wks	<p style="text-align: center;">F F A / S A E</p> <ul style="list-style-type: none"> • Careers options • Supervised Agriculture Experience • Parliamentary Procedure • History/symbols • Opportunities/Awards 	<p>4.4 5.2 6.5 13.1 1.6</p>	<ul style="list-style-type: none"> • Job opportunities in Ag • record keeping • business meeting management • historical data and personal goal setting • leadership development 	<ul style="list-style-type: none"> • Written tests and quizzes • SAE books • Career development events • Award applications • Nocti
3 wks	<p style="text-align: center;">Plants</p> <ul style="list-style-type: none"> • STRUCTURES/TAXONOMY • PLANT PHYSIOLOGY • PLANT REPRODUCTION • GARDENING • VEGETABLES • GRAIN/OIL/SPECIALTY CROPS • FORAGE AND PASTURES • ORNAMENTALS • BIOTECHNOLOGY IN PLANTS • INTEGRATED PEST MANAGEMENT 	<p>3.3 4.4 4.5 4.5 4.9</p>	<ul style="list-style-type: none"> • Identify plant parts • Describe plant processes • Understand asexual and Grow and identify plants • Understand agronomic crops in the world • Landscaping processes and products • Identify plant biotechnology issues and advancements' 	<ul style="list-style-type: none"> • written tests and quizzes • Hands-on work/greenhouse • Nocti •

<p>2.5 wks</p>	<p>ANIMAL</p> <ul style="list-style-type: none"> Animal Anatomy Animal Health Genetics/Breeding/Reproduction Small animal care Dairy and Livestock Horse biotechnology in animal science 	<p>2.3 3.3 4.4 4.9</p>	<ul style="list-style-type: none"> Describe animal parts understand animal describe healthy animals list animal terms breeding techniques describe animal processes list and describe animal products identify purposes of biotechnology in animal science 	<ul style="list-style-type: none"> written test and quizzes breeding charts Nocti Career development events
<p>2 wks</p>	<p>NATURAL RESOURCES</p> <ul style="list-style-type: none"> Soils Forestry Wildlife/Aquatics 	<p>2.2 3.5 4.1 4.4 7.2 13.1</p>	<ul style="list-style-type: none"> Understand soil properties List conservation methods Identify soil horizons Identify forestry products Use and measurement of forestry products Identify prey/predator relationships Understand wildlife/aquatic relationships Use of global position systems 	<ul style="list-style-type: none"> Written tests and quizzes Worksheets Nocti Career Development events

1wk	<p style="text-align: center;">FOOD SCIENCE</p> <ul style="list-style-type: none"> • Food industry • Food science 	<p style="text-align: center;">4.4 4.9 11.3 13.1 13.4</p>	<ul style="list-style-type: none"> • Food safety • Food processing techniques • Food processing equipment • Food grades • Organic food products 	<ul style="list-style-type: none"> • Written tests and quizzes • Career development events • Nocti
3 wks	<p style="text-align: center;">COMMUNICATIONS</p> <ul style="list-style-type: none"> • Marketing • Agribusiness planning • Entrepreneurship in AG 	<p style="text-align: center;">4.4 13.1 13.4 2.2 1.8</p>	<ul style="list-style-type: none"> • National/global concepts • Business model identification • Business finances • Taxes • Laws and regulations 	<ul style="list-style-type: none"> • Written test and quizzes • Business project • Career development events • Nocti
3 wks	<p style="text-align: center;">POWER MECHANICS/CONSTRUCTION</p> <ul style="list-style-type: none"> • Small gas engines • Electricity • Plumbing concrete and masonry • Agriculture structures • Farm machinery and equipment 	<p style="text-align: center;">3.6 3.7 2.2 2.3 4.4 4.8 10.3 13.1 13.4</p>	<ul style="list-style-type: none"> • Engine processes • Fuels and lubricants • AC/DC power • Power generation • Building techniques • Calculating building materials • Use of materials • Drive tractor and equipment safely and correctly 	<ul style="list-style-type: none"> • Written test and quizzes • Projects • Building project

	WOOD/METAL WORKING				
	• Hand tools	3.6		• Tool id	• Written tests and quizzes
	• Power tools	3.7		• Proper use of tools	• Practicum tests
3 wks	• Project construction	2.2		• Weld with various techniques	• Projects
	• Welding-ARC	2.3		• Identify welding process	• Career Development events
	• Welding-MIG	4.4			• Nocti
	• Welding-GAS	4.8			
		10.3			
		13.1			
		13.4			

General Syllabus for:
Agriculture Education---- GRADES 9-12

CONNEAUT SCHOOL DISTRICT

Type of course: Agriculture I-IV

Prerequisites: none Text

Information: The Science of Animal Agriculture, Agriscience Fundamentals and Applications,
Agriculture Mechanics, Fundamentals and Applications,

Objectives:

- o To prepare for a career in Agriculture related fields
 - o Have a general overview of Agriculture in our world
 - o To develop leadership skills in today's youth

Topics Covered:

Introduction to Agriculture

- o Introduction
- o Shop orientation and procedures

FFA/SAE

- o Career options
- o Supervised Agriculture Experiences
- o Parliamentary Procedure
- o History/symbols
- o Opportunities and rewards

Plants

- o Structures
- o Reproduction
- o Gardening
- o Vegetables
- o Grains and oil crops
- o Forages and pastures
- o Ornamentals

Animals

- o Anatomy
- o Animal health
- o Genetics/reproduction
- o Small animal care
- o Dairy and livestock
- o Horses

Natural Resources

- o Soils
- o Forestry

- Wildlife and Aquatics

Wood and Metal working

- Hand tools
- Power tools
- Welding
- Small gas engines
- Project construction

Communications

- Marketing
- Agribusiness
- Planning Entrepreneurship in Ag

Assessment:

- NOCTI
- Tests
- Quizzes
- Worksheets
- Practicum skills
- Contests

Parent/Student Resources:

- On-line texts
- PA FFA Website www.paffa.state.pa.us