

TEKS CORRELATIONS & SUGGESTED PACING GUIDE

Agricultural Equipment Design & Fabrication



iCEV Agricultural Science Site

Meets 100% of TEKS

184 days of teaching material

Scope & Sequence	Lesson Title	TEKS	Days of Teaching
1	Personal & Occupational Health & Safety	1.D.i; 1.D.ii; 1.D.iii; 1.D.iv	11
2	Mathematics in Construction	N/A	7
3	Measurement in Construction	3.D.i	10
4	Project Management Skills	3.E.i	13
5	Computer Aided Design Techniques	3.F.i	5
6	Hand Tool ID & Terminology I	5.C.i; 5.C.ii	6
7	Hand Tool ID & Terminology II	5.C.i; 5.C.ii	6
8	Hand Tool ID & Terminology III	5.C.i; 5.C.ii	6
9	Portable Wood Power Tools - I: Safety, Operation & ID	5.C.iii; 5.C.iv	2
10	Portable Wood Power Tools - II: Safety, Operation & ID	5.C.iii; 5.C.iv	2
11	Large Wood Power Tools - I: Safety, Operation & ID	5.C.iii; 5.C.iv	3
12	Large Wood Power Tools - II: Safety, Operation & ID	5.C.iii; 5.C.iv	2
13	Large Metal Power Tools: Safety & Operation	5.C.iii; 5.C.iv	4
14	Gooseneck Stock Trailer Construction - I	3.A.i; 3.B.i; 3.B.ii; 3.C.i; 3.C.ii; 3.C.iii; 3.C.iv; 3.D.i; 3.D.ii; 3.E.i; 6.A.i; 6.B.ii; 6.B.ii; 6.B.iii; 6.B.iv	2
15	Gooseneck Stock Trailer Construction - II	3.A.i; 3.B.i; 3.B.ii; 3.C.i; 3.C.ii; 3.C.iii; 3.C.iv; 3.D.i; 3.D.ii; 3.E.i; 6.A.i; 6.B.i; 6.B.ii; 6.B.ii; 6.B.iv	2
16	Gooseneck Stock Trailer Construction - III	3.A.i; 3.B.i; 3.B.ii; 3.C.i; 3.C.ii; 3.C.iii; 3.C.iv; 3.D.i; 3.D.ii; 3.E.i; 6.A.i; 6.B.ii; 6.B.ii; 6.B.iii; 6.B.iv	3
17	Oxy-Fuel Cutting	5.A.i	6
18	Plasma Arc Cutting	5.A.ii	6
19	Shielded Metal Arc Welding: Preparation & Safety	5.B.i	7
20	Gas Metal Arc Welding: Equipment, Set-Up & Maintenance	5.B.i	5
21	Fencing Tools & Techniques	3.D.ii; 4.A.i; 4.A.ii; 4.B.i; 4.B.ii; 4.C.i	3
22	The World of Agriculture	1.B.i; 1.B.ii; 1.C.i; 1.C.ii; 1.C.iii	12
23	Career Cluster: Agriculture, Food & Natural Resources	1.A.i; 1.A.ii; 1.C.i; 1.C.ii; 1.C.iii	7
24	Power, Structural & Technical Systems	1.A.i; 1.B.i; 1.B.ii; 1.B.ii; 1.B.iv	2
25	Formulas for Career Success: Career Testing & Investigation	1.A.i	8
26	Internships 101: The Importance of Internships	1.A.i	2
27	Employability Skills	1.B.iii; 1.B.iv; 1.E.i; 1.E.ii	5
28	Workplace Issues	1.D.i; 1.D.ii; 1.D.iii; 1.D.iv	4
29	Citizenship Basics	1.F.i; 1.F.ii; 1.F.iii	9
30	Blue & Gold Basics: SAE Programs	2.A.i; 2.A.ii; 2.A.iii; 2.A.iv; 2.A.v; 2.B.i	5
31	Introduction to Record Keeping	2.B.i	3
32	Blue & Gold Basics: What is FFA?	2.C.i; 2.D.i; 2.D.ii	6
33	Blue & Gold Basics: FFA Officers & Meetings	2.C.i	8
34	Blue & Gold Basics: Career Development Events	2.C.i	2

Correlations to the Texas Essential Knowledge and Skills (TEKS): Student/Teacher Material						
Subject	Chapter 130. Texas Essential Knowledge and Skills for Career & Technical Education					
Subchapter	Subchapter A. Agriculture, Food, And Natural Resources					
Course	§130.28. Agricultural Equipment Design and Fabrication (One Credit), Adopted 2015.					
Publisher	CEV Multimedia, Ltd.					
Program Title	iCEV Agricultural Science Site					
Program ISBN	9.78161E+12					
TEKS Coverage (%)	100.00%					

(a) General Requirements. This course is recommended for students in Grades 11 and 12. Recommended prerequisite: Agricultural Mechanics and Metal Technologies. Students shall be awarded one credit for successful completion of this course.

(b) Introduction.

- (1) Career and technical education instruction provides content aligned with challenging academic standards and relevant technical knowledge and skills for students to further their education and succeed in current or emerging professions.
- (2) The Agriculture, Food, and Natural Resources Career Cluster focuses on the production, processing, marketing, distribution, financing, and development of agricultural commodities and resources, including food, fiber, wood products, natural resources, norticulture, and other plant and animal products/resources.
- (3) In Agricultural Equipment Design and Fabrication, students will acquire knowledge and skills related to agricultural equipment design and fabrication. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural equipment design and fabrication. To prepare for success, students reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings.
- (4) Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.
- (5) Statements that contain the word "including" reference content that must be mastered, while those containing the phrase "such as" are intended as possible illustrative examples.

(c) Knowledge and Skills.

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(A) identify career development and entrepreneurship opportunities in the field of mechanized agriculture	(i) identify career development opportunities in the field of mechanized agriculture	Student/Teacher	Narrative	9781614592082	Career Cluster: Agriculture, Food & Natural Resources	
			Student/Teacher	Activity	9781614592082	Project - Career Comparison; Project - Career Cube; Project - Career Interview; Project - Local Search; Project - The Career for Me	Career Cluster: Agriculture, Food & Natural Resources
			Student/Teacher	Narrative	9781614592082	Power, Structural & Technical Systems	
			Student/Teacher	Activity	9781614592082	Activity - Career Ranking	Animal Systems

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
			Student/Teacher	Narrative	9781614592082	Formulas for Career Success: Career Testing & Investigation; Internships 101: The Importance of Internships	
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only Teacher Only				
			Teacher Only				
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(A) identify career development and entrepreneurship opportunities in the field of mechanized agriculture	(ii) identify entrepreneurship opportunities in the field of mechanized agriculture	Student/Teacher	Narrative	9781614592082	Career Cluster: Agriculture, Food & Natural Resources	
			Student/Teacher	Activity	9781614592082	Project - Entrepreneurial Adventures	Career Cluster: Agriculture, Food & Natural Resources
			Student/Teacher				
			Student/Teacher Student/Teacher				
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only				
			Teacher Only Teacher Only				
			reaction Offing				
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(B) apply competencies related to resources, information, interpersonal skills, and systems of operation of mechanized agriculture	(i) apply competencies related to resources of mechanized agriculture	Student/Teacher	Narrative	9781614592082	Power, Structural & Technical Systems	
			Student/Teacher	Narrative	9781614592082	The World of Agriculture	
			Student/Teacher		9781614592082	Activity - Career Opportunities; Activity - Career Opportunities Teacher Instruction Sheet	The World of Agriculture
				Activity			

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
			Chudani/Taaahar				
			Student/Teacher Student/Teacher				
			Teacher Only	Narrative			
			Teacher Only				<u> </u>
			Teacher Only Teacher Only				
			Teacher Only				
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(B) apply competencies related to resources, information, interpersonal skills, and systems of operation of mechanized agriculture	(ii) apply competencies related to information of mechanized agriculture	Student/Teacher	Narrative	9781614592082	Power, Structural & Technical Systems	
			Student/Teacher	Narrative	9781614592082	The World of Agriculture	
			Student/Teacher	Activity	9781614592082	Activity - Career Opportunities; Activity - Career Opportunities Teacher Instruction Sheet	The World of Agriculture
			Student/Teacher				
			Student/Teacher				
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only				
			Teacher Only				
			Teacher Only				
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(B) apply competencies related to resources, information, interpersonal skills, and systems of operation of mechanized agriculture	(iii) apply competencies related to interpersonal skills of mechanized agriculture	Student/Teacher	Narrative	9781614592082	Power, Structural & Technical Systems	
			Student/Teacher	Narrative	9781614592082	Employability Skills	
			Student/Teacher	Activity	9781614592082	Activity - Skills Flashcards; Project - Personal Skills	Employability Skills
			Student/Teacher				
			Student/Teacher		1		<u>i</u>

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only				
			Teacher Only				
			Teacher Only				
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(B) apply competencies related to resources, information, interpersonal skills, and systems of operation of mechanized agriculture	(iv) apply competencies related to systems of operation of mechanized agriculture	Student/Teacher	Narrative	9781614592082	Power, Structural & Technical Systems	
			Student/Teacher	Narrative	9781614592082	Employability Skills	
			Student/Teacher	Activity	9781614592082	Activity - Skills Flashcards; Project - Personal Skills	Employability Skills
			Student/Teacher				
			Student/Teacher Teacher Only	Narrative			
			Teacher Only				
			Teacher Only				
			Teacher Only Teacher Only				
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(C) research licensing, certification, and credentialing requirements	(f) research licensing requirements	Student/Teacher	Narrative	9781614592082	Career Cluster: Agriculture, Food & Natural Resources	
			Student/Teacher	Activity	9781614592082	Project - The Career for Me	Career Cluster: Agriculture, Food & Natural Resources
			Student/Teacher	Narrative	9781614592082	The World of Agriculture	
			Student/Teacher	Activity	9781614592082	Activity - Career Opportunities; Activity - Career Opportunities Teacher Instruction Sheet	The World of Agriculture
I			Student/Teacher				

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only				
			Teacher Only Teacher Only				
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(C) research licensing, certification, and credentialing requirements	(ii) research certification requirements	Student/Teacher	Narrative	9781614592082	Career Cluster: Agriculture, Food & Natural Resources	
			Student/Teacher	Activity	9781614592082	Project - The Career for Me	Career Cluster: Agriculture, Food & Natural Resources
			Student/Teacher	Narrative	9781614592082	The World of Agriculture	
			Student/Teacher	Activity	9781614592082	Activity - Career Opportunities; Activity - Career Opportunities Teacher Instruction Sheet	The World of Agriculture
			Student/Teacher				
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only				
			Teacher Only Teacher Only				
			reactici Only				
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(C) research licensing, certification, and credentialing requirements	(iii) research credentialing requirements	Student/Teacher	Narrative	9781614592082	Career Cluster: Agriculture, Food & Natural Resources	
			Student/Teacher	Activity	9781614592082	Project - The Career for Me	Career Cluster: Agriculture, Food & Natural Resources
			Student/Teacher	Narrative	9781614592082	The World of Agriculture	

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s) Specific Location
			Student/Teacher	Activity	9781614592082	Activity - Career Opportunities: Activity - Career Opportunities Teacher Instruction Sheet
			Student/Teacher			
			Teacher Only	Narrative		
			Teacher Only Teacher Only			
			Teacher Only			
			Teacher Only			
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(D) demonstrate knowledge of personal and occupational health and safety practices in the workplace	(i) demonstrate knowledge of personal health practices in the workplace	Student/Teacher	Narrative	9781614592082	Workplace Issues
			Student/Teacher	Activity	9781614592082	Activity - Facts & Opinions in Occupational Safety Practices: Activity - Federal Laws for Safety; Project - Creating an Employee Handbook; Project - Determining Health Practices in the Workplace; Project - In Your Own Words OSHA in the Workplace; Project - In Your Own Words OSHA in the Workplace; Project - Wellness Practices in the Workplace; Project - Wellness Practices Project - Wellness Practices in the Workplace
			Student/Teacher	Narrative	9781614592082	Personal & Occupational Health & Safety

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
			Student/Teacher		9781614592082	Activity - Hazard Solutions: Activity - Hazard Solutions Teacher Instruction Sheet: Activity - Personal Protective Equipment; Activity - Safety Inspection Checklist: Project - OSHA; Project - Public Service Announcement	Personal & Occupational Health & Safety
			Student/Teacher	Activity			
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only				
			Teacher Only Teacher Only				
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(D) demonstrate knowledge of personal and occupational health and safety practices in the workplace	(ii) demonstrate knowledge of personal safety practices in the workplace	Student/Teacher	Narrative	9781614592082	Workplace Issues	
			Student/Teacher	Activity	9781614592082	Activity - Facts & Opinions in Occupational Safety Practices: Activity - Federal Laws for Safety: Project - Creating an Employee Handbook: Project - Determining Health Practices in the Workplace: Project - In Your Own Words OSHA in the Workplace: Project - Wellness Practices in the Workplace	Workplace Issues

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
			Student/Teacher	Narrative	9781614592082	Personal & Occupational Health & Safety	
			Student/Teacher Student/Teacher	Activity	9781614592082	Activity - Hazard Solutions: Activity - Hazard Solutions Teacher Instruction Sheet: Activity - Personal Protective Equipment; Activity - Safety Inspection Checklist: Project - OSHA; Project - Public Service Announcement	Personal & Occupational Health & Safety
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only Teacher Only				
			Teacher Only				-
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(D) demonstrate knowledge of personal and occupational health and safety practices in the workplace	(iii) demonstrate knowledge of occupational health practices in the workplace	Student/Teacher	Narrative	9781614592082	Workplace Issues	

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
			Student/Teacher	Activity	9781614592082	Activity - Facts & Opinions in Occupational Safety Practices; Activity - Federal Laws for Safety; Project - Creating an Employee Handbook; Project - Determining Health Practices in the Workplace: Project - In Your Own Words OSHA in the Workplace; Project - Wellness Practices in the Workplace; Project - Wellness Practices in the Workplace	Workplace Issues
			Student/Teacher	Narrative	9781614592082	Personal & Occupational Health & Safety	
			Student/Teacher Student/Teacher	Activity	9781614592082	Activity - Hazard Solutions; Activity - Hazard Solutions Teacher Instruction Sheet; Activity - Personal Protective Equipment; Activity - Safety Inspection Checklist; Project - OSHA; Project - Public Service Announcement	Personal & Occupational Health & Safety
			Student/Teacher				
			Teacher Only Teacher Only	Narrative			
			Teacher Only				
			Teacher Only				
			Teacher Only				

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(D) demonstrate knowledge of personal and occupational health and safety practices in the workplace	(iv) demonstrate knowledge of occupational safety practices in the workplace	Student/Teacher	Narrative	9781614592082	Workplace Issues	
			Student/Teacher	Activity	9781614592082	Activity - Facts & Opinions in Occupational Safety Practices; Activity - Federal Laws for Safety; Project - Creating an Employee Handbook; Project - Determining Health Practices in the Workplace; Project - In Your Own Words Own Words Own Words Safety Project - Workplace; Project - Wellness Practices in the Workplace; Project - Wellness Practices in the Workplace	Workplace Issues
			Student/Teacher	Narrative	9781614592082	Personal & Occupational Health & Safety	
			Student/Teacher	Activity	9781614592082	Activity - Hazard Solutions; Activity - Hazard Solutions Teacher Instruction Sheet: Activity - Personal Protective Equipment: Activity - Safety Inspection Checklist: Project - OSHA: Project - Public Service Announcement	Personal & Occupational Health & Safety
			Student/Teacher				
			Teacher Only	Narrative			
			Teacher Only				

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
			Teacher Only				
			Teacher Only Teacher Only				
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(E) identify employer expectations and appropriate work habits	(i) identify employer expectations	Student/Teacher	Narrative	9781614592082	Employability Skills	
						Project -	
						Personal Skills; Activity - Skills Flashcards;	
			Student/Teacher	Activity	9781614592082	Activity - Work Habits: Good vs Bad; Activity - Work Habits:	Employability Skills
						Good vs Bad Answer Kev	
			Student/Teacher Student/Teacher				
			Student/Teacher				
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only				
			Teacher Only Teacher Only				
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(E) identify employer expectations and appropriate work habits	(ii) identify appropriate work habits	Student/Teacher	Narrative	9781614592082	Employability	
						Skills	
			Student/Teacher	Activity	9781614592082	Project - Personal Skills; Activity - Skills Flashcards; Activity - Work Habits: Good vs Bad; Activity - Work Habits:	Employability Skills
			Student/Teacher			Good vs Bad Answer Key	
			Student/Teacher				
			Student/Teacher				
			Teacher Only	Narrative			
			Teacher Only				

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type Teacher Only	Citation Type	Component ISBN	Page (s)	Specific Location
			Teacher Only Teacher Only				
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(F) demonstrate characteristics of good citizenship, including advocacy, stewardship, and community leadership	(i) demonstrate characteristics of good citizenship, including advocacy	Student/Teacher	Narrative	9781614592082	Citizenship Basics	
			Student/Teacher Student/Teacher	Activity	9781614592082	Activity - Citizenship: What's it to You?; Project - Serving the Community	Citizenship Basics
			Student/Teacher				
			Student/Teacher				
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only				
			Teacher Only Teacher Only				
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(F) demonstrate characteristics of good citizenship, including advocacy, stewardship, and community leadership	(ii) demonstrate characteristics of good citizenship, including stewardship	Student/Teacher	Narrative	9781614592082	Citizenship Basics	
			Student/Teacher	Activity	9781614592082	Activity - Citizenship: What's it to You?; Project - Serving the Community	Citizenship Basics
			Student/Teacher				
			Student/Teacher				
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only				
			Teacher Only				
			Teacher Only				

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(F) demonstrate characteristics of good citizenship, including advocacy, stewardship, and community leadership	(iii) demonstrate characteristics of good citizenship, including community leadership	Student/Teacher	Narrative	9781614592082	Citizenship Basics	
			Student/Teacher	Activity	9781614592082	Activity - Citizenship: What's it to You?; Project - Serving the Community	Citizenship Basics
			Student/Teacher Student/Teacher				
			Student/Teacher Student/Teacher	1			
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only				
			Teacher Only Teacher Only				
(2) The student develops a supervised agriculture experience program. The student is expected to:	(A) plan, propose, conduct, document, and evaluate a supervised agriculture experience program as an	(i) plan a supervised agriculture experience program as an experiential learning activity					
	experiential learning activity		Student/Teacher	Narrative	9781614592082	Blue & Gold Basics: SAE Programs	
	ехренения неагнінд асцічну		Student/Teacher	Narrative Activity	9781614592082 9781614592082	Basics: SAE	Blue & Gold Basics: SAE Programs
	ехренения неагнінд асцічну					Basics: SAE Programs Activity - Matching Experiences; Activity - Matching Experiences Answer Key; Activity - Selecting the Appropriate SAE: Activity Selecting the Appropriate SAE: Answer Key; Project - SAE Planning; Project - SAE Planning Contract; Student Handout - Factors for SAE	

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only Teacher Only				
			Teacher Only				
(2) The student develops a supervised agriculture experience program. The student is expected to:	(A) plan, propose, conduct, document, and evaluate a supervised agriculture experience program as an experiential learning activity	(ii) propose a supervised agriculture experience program as an experiential learning activity	Student/Teacher	Narrative	9781614592082	Blue & Gold Basics: SAE Programs	
			Student/Teacher Student/Teacher	Activity	9781614592082	Activity- Matching Experiences; Activity- Matching Experiences Answer Key; Activity- Selecting the Appropriate SAE; Activity- Selecting the Appropriate SAE Answer Key; Project - SAE Planning; Project - SAE Planning; Contract; Student Handout - Factors for SAE Selection	Blue & Gold Basics: SAE Programs
			Student/Teacher				
			Student/Teacher				
			Teacher Only	Narrative			
			Teacher Only Teacher Only				
			Teacher Only				
			Teacher Only				

(2) The student Services agriculture experience program in an experience program as an experienc	Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
Matching Experiences Authory Matching Experiences Authory Matching Experiences Authory Authory Authory Selecting the Appropriate Selecting the Appro		supervised agriculture experience program as an		Student/Teacher	Narrative	9781614592082	Basics: SAE	
Student/Teacher Student/Teacher Student/Teacher Student/Teacher Teacher Only Narrative Teacher Only Teacher Only Teacher Only				Student/Teacher	Activity		Matching Experiences: Activity - Matching Experiences Answer Key; Activity - Selecting the Appropriate SAE: Activity - Selecting the Appropriate SAE Answer Key; Project - SAE Planning; Project - SAE Planning Contract; Student Handout - Factors for SAE	Blue & Gold Basics: SAE Programs
Teacher Only Narrative Teacher Only Teacher Only Teacher Only Teacher Only Teacher Only								
Teacher Only Narrative Teacher Only Teacher Only Teacher Only Teacher Only								
Teacher Only				Teacher Only	Narrative			
				Teacher Only				
Topohor Only				Teacher Only Teacher Only				
Teacher Only Teacher Only								

(2) The student develops a supervised agriculture expected and properties of agriculture expec	Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
Matching Experiences Activity Matching Experiences Activity Matching Experiences Activity Selecting the Activity Stadent/Teacher Activity 77816/4499282 Selecting the Aproprise SAE Activity Selecting the Aproprise SAE Aproprise SAE Planning Project - SAE Planning Project - SAE Planning Contract Subdent Hardoul Factors or SAE Subdent Feacher Subdent Feacher Subdent Feacher Subdent Feacher Teacher Only Remains		supervised agriculture experience program as an		Student/Teacher	Narrative	9781614592082	Basics: SAE	
Student/Teacher				Student/Teacher	Activity		Matching Experiences: Activity - Matching Experiences Answer Key; Activity - Selecting the Appropriate SAE: Activity - Selecting the Appropriate SAE Answer Key; Project - SAE Planning; Project - SAE Planning Contract; Student Handout - Factors for SAE	Blue & Gold Basics: SAE Programs
Teacher Only Narrative Teacher Only Teacher Only Teacher Only Teacher Only Teacher Only								
Teacher Only Narrative Teacher Only Teacher Only Teacher Only Teacher Only								
Teacher Only				Teacher Only	Narrative			
				Teacher Only				
leacher Univ								
Teacher Only								

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
(2) The student develops a supervised agriculture experience program. The student is expected to:	(A) plan, propose, conduct, document, and evaluate a supervised agriculture experience program as an experiential learning activity	(v) evaluate a supervised agriculture experience program as an experiential learning activity	Student/Teacher	Narrative	9781614592082	Blue & Gold Basics: SAE Programs	
			Studenl/Teacher Studenl/Teacher Studenl/Teacher	Activity	9781614592082	Activity - Matching Experiences; Activity - Matching Experiences Answer Key; Activity - Selecting the Appropriate SAE; Activity - Selecting the Appropriate SAE Answer Key; Project - SAE Planning; Project - SAE Planning; Contract; Student Handout - Factors for SAE Selection	Blue & Gold Basics: SAE Programs
			Student/Teacher Student/Teacher				
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only Teacher Only				
			Teacher Only				
(2) The student develops a supervised agriculture experience program. The student is expected to:	(B) apply proper record-keeping skills as they relate to the supervised agriculture experience	(i) apply proper record-keeping skills as they relate to the supervised agriculture experience	Student/Teacher	Narrative	9781614592082	Introduction to Record Keeping	
			Student/Teacher	Activity	9781614592082	Project - Introduction to Record Keeping	Introduction to Record Keeping
			Student/Teacher	Narrative	9781614592082	Blue & Gold Basics: SAE Programs	
			Student/Teacher	Activity	9781614592082	Project - SAE Planning; Project - SAE Planning Contract	Blue & Gold Basics: SAE Programs

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
			Student/Teacher				
			Teacher Only	Narrative			
			To a bas Oak				
			Teacher Only Teacher Only				
			Teacher Only				
			Teacher Only				
(2) The student develops a supervised agriculture experience program. The student is expected to:	(C) participate in youth leadership opportunities to create a well-rounded experience program	(i) participate in youth leadership opportunities to create a well-rounded experience program	Student/Teacher	Narrative	9781614592082	Blue & Gold Basics: What is FFA?	
			Student/Teacher	Activity	9781614592082	Student Handout - Program of Activities; Activity - Program of Activities; Project - FFA Group Lesson Plan	Blue & Gold Basics: What is FFA?
			Student/Teacher	Narrative	9781614592082	Blue & Gold Basics: FFA Officers & Meetings	
			Student/Teacher	Activity	9781614592082	Activity - FFA Officer Duties; Activity - FFA Officer Duties Answer Key	Blue & Gold Basics: FFA Officers & Meetings
			Student/Teacher	Narrative	9781614592082	Blue & Gold Basics: Career Development Events	
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only Teacher Only				
			Teacher Only				

Si ten control de la control d	Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
Sometimates Activity Visital Activities Sometimates Sometimates Sometimates Teacher Only Numitation Teacher Only Teac				Student/Teacher	Narrative	9781614592082	Basics: What is FFA?	
Student Teacher City Toucher City Student Teacher Student Teacher Arthely VP8161692082 Student Teacher Arthely VP8161692082 Student Teacher Student Teacher Student Teacher Student Teacher Student Teacher Toucher City Namative Namative					Activity	9781614592082	Handout - Program of Activities; Activity - Program of Activities; Project - FFA Group Lesson	Blue & Gold Basics: What is FFA?
Feacher Only Number								
Treacher Obly				Student/Teacher				
Teacher Only (2) The student develops a supervised agriculture experience program. The student is expected to: (B) participate in a local program of activities using a strategic planning process Student/Teacher Student/Teacher Student/Teacher Activity 9781614592082 Blue & Cold Basics: What is FFA? Activity Program of Activities Student/Teacher Student/Teacher Activity Program of Activities Student/Teacher Student/Teacher Student/Teacher Student/Teacher Teacher Only Narralive Teacher Only Narralive Teacher Only Narralive Teacher Only				Teacher Only	Narrative			
Teacher Only (2) The student develops a supervised agriculture experience program. The student is expected to: (B) produce and participate in a local program of activities using a strategic planning process (B) participate in a local program of activities using a strategic planning process Student/Teacher Student/Teacher Activity 9781614592082 Student/Teacher Activity Program of Activities Activity Program of Activities Program of Activities Student/Teacher Student/Teacher Student/Teacher Teacher Only Narrative Teacher Only Teacher Only Teacher Only Teacher Only Teacher Only Teacher Only								
(2) The student develops a supervised agriculture experience program. The student is expected to: (3) produce and participate in a local program of activities using a strategic planning process (4) participate in a local program of activities using a strategic planning process (5) Student/Teacher Student/Teacher Activities Student/Teacher Activities Activi				Teacher Only				
experience program. The student is expected to: activities using a strategic planning process Student/Teacher Student/Teacher Student/Teacher Activity 9781614592082 Blue & Gold Basics: What is FFA? FFAP Activities Program of Activities Activities Program of Activ				Teacher Only				
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Student/Teacher Student/Teacher Teacher Only Narrative Teacher Only Teacher Only Teacher Only Teacher Only					Activity	9781614592082	Handout - Program of Activities; Activity - Program of Activities; Project - FFA Group Lesson	Blue & Gold Basics: What is FFA?
Student/Teacher Teacher Only Narrative Teacher Only Teacher Only Teacher Only Teacher Only								
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(3) The student demonstrates principles of design and fabrication related to agricultural machinery and equipment. The student is expected to: Student/Teacher Student/Teacher Student/Teacher Student/Teacher Activity 9781614592082 Activity - Types of Stock Trailer Construction - I Gooseneck Stock Trailer Construction - I Student/Teacher Student/Teacher Student/Teacher Student/Teacher Narrative 9781614592082 Gooseneck Stock Trailer Construction - I Student/Teacher Narrative Narrative Narrative Narrative Narrative Student/Teacher Narrative	Trailer Construction - I
Student/Teacher Activity 9781614592082 of Slock Trailers; Project Gooseneck Stock Trailers (Construction - I Construction - I Student/Teacher Narrative 9781614592082 of Sooseneck Stock Trailer (Construction - II Construction - III Construction - II Construction - II Construction - II Construction - II Constru	Trailer Construction - I
Student/Teacher 9781614592082 Stock Trailer Construction - II Student/Teacher 9781614592082 Stock Trailer Construction - II Student/Teacher 9781614592082 Stock Trailer Construction - III Narrative Narrative	
Studenl/Teacher 9781614592082 Stock Trailer Construction - III	
Student/Teacher Student Teacher	
Teacher Only Narrative	
Teacher Only	
Teacher Only Teacher Only	
Teacher Only Teacher Only	
(3) The student demonstrates principles of design and fabrication related to agricultural machinery and equipment. The student is expected to: (B) select appropriate construction and finish materials for different types of agricultural equipment (i) select appropriate construction materials for different types of agricultural equipment (ii) select appropriate construction materials for different types of agricultural equipment (ii) select appropriate construction materials for different types of agricultural equipment (iii) select appropriate construction materials for different types of agricultural equipment (iv) select appropriate construction materials for different types of agricultural equipment (iv) select appropriate construction materials for different types of agricultural equipment (iv) select appropriate construction materials for different types of agricultural equipment (iv) select appropriate construction materials for different types of agricultural equipment (iv) select appropriate construction materials for different types of agricultural equipment (iv) select appropriate construction materials for different types of agricultural equipment (iv) select appropriate construction materials for different types of agricultural equipment (iv) select appropriate construction materials for different types of agricultural equipment (iv) select appropriate construction materials for different types of agricultural equipment (iv) select appropriate construction materials for different types of agricultural equipment (iv) select appropriate construction materials for different types of agricultural equipment (iv) select appropriate construction materials for different types of agricultural equipment (iv) select appropriate construction select appropriate construction materials for different types of agricultural equipment (iv) select appropriate construction sel	
Siock Ifailet Construction I	Trailer Construction - I
Student/Teacher Parative Gooseneck Student/Teacher Parative Gooseneck Stock Trailer Construction - II	
Student/Teacher 9781614592082 Gooseneck Stock Trailer Narrative Construction - III	
Student/Teacher Student/Teacher	
Teacher Only Narrative	
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Teacher Only Teacher Only	

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
(3) The student demonstrates principles of design and fabrication related to agricultural machinery and equipment. The student is expected to:	(B) select appropriate construction and finish materials for different types of agricultural equipment	(ii) select appropriate finish materials for different types of agricultural equipment	Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - I	
			Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - II	
			Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - III	
			Student/Teacher	Activity	9781614592082	Project - Gooseneck Stock Trailer Construction III	Gooseneck Stock Trailer Construction - III
			Student/Teacher				
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only Teacher Only				
	+		Teacher Only				
(3) The student demonstrates principles of design and fabrication related to agricultural machinery and equipment. The student is expected to:	(C) estimate materials and costs needed for construction with an emphasis on renewable and eco-friendly materials	(i) estimate materials needed for construction with an emphasis on renewable materials	Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - I	
			Student/Teacher	Activity	9781614592082	Project - Gooseneck Stock Trailer Construction I; Student Handout - Renewable & Ecofriendly Materials	Gooseneck Stock Trailer Construction - I
			Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - II	
			Student/Teacher	Activity	9781614592082	Student Handout - Renewable & Ecofriendly Materials	Gooseneck Stock Trailer Construction - II
			Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - III	

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
			Teacher Only	Narrative			
			Teacher Only Teacher Only				
			Teacher Only				
			Teacher Only				
(3) The student demonstrates principles of design and fabrication related to agricultural machinery and equipment. The student is expected to:	(C) estimate materials and costs needed for construction with an emphasis on renewable and eco-friendly materials	(ii) estimate costs needed for construction with an emphasis on renewable materials	Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - I	
			Student/Teacher	Activity	9781614592082	Project - Gooseneck Stock Trailer Construction I; Student Handout - Renewable & Ecofriendly Materials	Gooseneck Stock Trailer Construction - I
			Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - II	
			Student/Teacher	Activity	9781614592082	Student Handout - Renewable & Ecofriendly Materials	Gooseneck Slock Trailer Construction - II
			Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - III	
			Teacher Only	Narrative			
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Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
(3) The student demonstrates principles of design and fabrication related to agricultural machinery and equipment. The student is expected to:	(C) estimate materials and costs needed for construction with an emphasis on renewable and eco-friendly materials	(iii) estimate materials needed for construction with an emphasis on ecofriendly materials	Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - I	
			Student/Teacher	Activity	9781614592082	Project - Gooseneck Stock Trailer Construction I; Student Handout - Renewable & Ecofriendly Materials	Gooseneck Stock Trailer Construction - I
			Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - II	
			Student/Teacher	Activity	9781614592082	Student Handout - Renewable & Ecofriendly Materials	Gooseneck Stock Trailer Construction - II
			Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - III	
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only				
			Teacher Only Teacher Only				
(3) The student demonstrates principles of design and fabrication related to agricultural machinery and equipment. The student is expected to:	(C) estimate materials and costs needed for construction with an emphasis on renewable and eco-friendly materials	(iv) estimate costs needed for construction with an emphasis on ecofriendly materials	Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - I	
			Student/Teacher	Activity	9781614592082	Project - Gooseneck Stock Trailer Construction I; Student Handout - Renewable & Ecofriendly Materials	Gooseneck Stock Trailer Construction - I
			Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - II	
			Student/Teacher	Activity	9781614592082	Student Handout - Renewable & Ecofriendly Materials	Gooseneck Stock Trailer Construction - II

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Statistical Statistics (Control of the state	Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
Tracket Only Tr				Student/Teacher	Narrative	9781614592082	Stock Trailer	
Tracher Only Trach				Teacher Only	Narrative			
Tourse Oay (i) The state of exemptions principles of edge and foliability in side of popular discontinency and copyrights in southern on the projects using meanuring and mechanical width colors measuring skills. Student Tourber Student Tourb				Teacher Only				
Sime student denominate projects of design and interest the region of the student is expected to approximat maximinary and mechanics with projects using measuring and mechanics with an expected to approximate maximinary and mechanics with projects using measuring and mechanics with an expected to approximate maximinary and mechanics with a state of the complex of the comple								
Tacker Only Totales Carly Narrative Totale								
G) The student demonstrates principles of design and inaccration readed to approximate projects using measuring and mechanical stills Student/Teacher Nameline 978164592032 Newton Female Nameline 978164592032 Newton Female Nameline Nameli				Teacher Only				
Sudentifeacher Activity 978161497082 Measuring Teacher Instruction Sudentifeacher 978161497082 Project Construction Namafile Construction Sudentifeacher 978161497082 Project Construction Namafile Construction Sudentifeacher 978161497082 Project Construction Sudentifeacher 978161497082 Project Construction Sudentifeacher 978161497082 Project Construction Namafile Construction Teacher Only Namafile Teacher Only Teacher Teacher Only Teacher Only Teacher Only Teacher Only Teacher Only Teacher	fabrication related to agricultural machinery and			Student/Teacher	Narrative	9781614592082	Construction	
Student/Teacher 9781614592082 Project Project Construction - It Project - Gooseneck Stock Trailer Construction - It Projec				Student/Teacher	Activity	9781614592082	Measuring; Activity - Measuring Teacher Instruction	
Student/Teacher Student/Teacher Student/Teacher Student/Teacher Narrative Narrative Student/Teacher Narrative Student/Teacher Student/Teacher Student/Teacher Teacher Only				Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - I; Project - Gooseneck Stock Trailer	Gooseneck Stock Trailer Construction - I; PLEASE NOTE: Due to space limitations, the narrative and associated activity are listed on one line. Several lessons and corresponding activities satisfy this standards
Student/Teacher 9781614592082 Student/Teacher 9781614592 Student/Teacher 97				Student/Teacher		9781614592082	Gooseneck Stock Trailer Construction - II; Project - Gooseneck Stock Trailer	Gooseneck Stock Trailer Construction - II: PLEASE NOTE: Due to space limitations, the narrative and associated activity are listed on one line. Several lessons and corresponding activities salisfy this standards
Teacher Only Teacher Only Teacher Only				Student/Teacher		9781614592082	Gooseneck Stock Trailer Construction - III; Project - Gooseneck Stock Trailer	Gooseneck Stock Trailer Construction - III; PLEASE NOTE: Due to space limitations, the narrative and associated activity are listed on one line. Several lessons and corresponding activities satisfy this standards
Teacher Only					Narrative			
Teacher Only				Teacher Only Teacher Only				
Teacher Only Teacher Only						1		

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
(3) The student demonstrates principles of design and fabrication related to agricultural machinery and equipment. The student is expected to:	(D) construct one or more agricultural equipment projects using measuring and mechanical skills	(ii) construct one or more agricultural equipment projects using mechanical skills	Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - I	
			Student/Teacher	Activity	9781614592082	Project - Gooseneck Stock Trailer Construction I	
			Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - II; Project - Gooseneck Stock Trailer Construction II	Gooseneck Stock Trailer Construction - I; PLEASE NOTE: Due to space limitations, the narrative and associated activity are listed on one line. Several lessons and corresponding activities salisfy this standards
			Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - III; Project - Gooseneck Stock Trailer Construction III	Gooseneck Stock Trailer Construction - II; PLEASE NOTE: Due to space limitations, the narrative and associated activity are listed on one line. Several lessons and corresponding activities salisfy this standards
			Student/Teacher	Narrative	9781614592082	Fencing Tools & Techniques; Project - Building the Fence	Gooseneck Stock Trailer Construction - III; PLEASE NOTE: Due to space limitations, the narrative and associated activity are listed on one line. Several lessons and corresponding activities satisfy this standards
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only Teacher Only				
			Teacher Only				
(3) The student demonstrates principles of design and fabrication related to agricultural machinery and equipment. The student is expected to:	(E) integrate a logical order of operations into the construction of an agricultural equipment project	(i) integrate a logical order of operations into the construction of an agricultural equipment project	Student/Teacher	Narrative	9781614592082	Project Management Skills	
			Student/Teacher	Activity	9781614592082	Project - Project Phases & Organization	Project Management Skills
			Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - I; Project - Gooseneck Stock Trailer Construction I	Gooseneck Stock Trailer Construction - I: PLEASE NOTE: Due to space limitations, the narrative and associated activity are listed on one line. Several lessons and corresponding activities satisfy this standards

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
			Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - II; Project - Gooseneck Stock Trailer Construction II	Gooseneck Stock Trailer Construction - II; PLEASE NOTE: Due to space limitations, the narrative and associated activity are listed on one line. Several lessons and corresponding activities satisfy this standards
			Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - III; Project - Gooseneck Stock Trailer Construction III	Gooseneck Stock Trailer Construction - III; PLEASE NOTE: Due to space limitations, the narrative and associated activity are listed on one line. Several lessons and corresponding activities satisfy this standards
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only				
			Teacher Only				
			Teacher Only				
(3) The student demonstrates principles of design and fabrication related to agricultural machinery and equipment. The student is expected to:	(F) use computer-aided design software	(i) use computer-aided design software	Student/Teacher	Narrative	9781614592082	Computer Aided Design Techniques	
			Student/Teacher	Activity	9781614592082	Project - Computer Aided Design Techniques	Computer Aided Design Techniques
			Student/Teacher				
			Student/Teacher Student/Teacher			 	
			Student/Teacner				
			Teacher Only	Narrative			
			Tanahar Only		-	1	
			Teacher Only Teacher Only			 	
			Teacher Only			 	
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Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
(4) The student plans, constructs, and maintains fences, corrals, and other agricultural enclosures. The student is expected to:	(A) select site and locate enclosures	(i) select site	Student/Teacher	Narrative	9781614592082	Fencing Tools & Techniques	
			Studenl/Teacher	Activity	9781614592082	Assessment I - Planning & Location; Assessment I - Planning & Location Answer Key; Activity - Fence Planning; Project - Building the Fence	Fencing Tools & Techniques
			Student/Teacher				
			Student/Teacher Student/Teacher				
			Student/Teacher				
			Teacher Only Teacher Only	Narrative			
			Teacher Only				
			Teacher Only				
			Teacher Only				
(4) The student plans, constructs, and maintains fences, corrals, and other agricultural enclosures. The student is expected to:	(A) select site and locate enclosures	(ii) locate enclosures	Student/Teacher	Narrative	9781614592082	Fencing Tools & Techniques	
			Student/Teacher	Activity	9781614592082	Assessment I - Planning & Location; Assessment I - Planning & Location Answer Key: Activity - Fence Planning; Project - Building the Fence	Fencing Tools & Techniques
			Student/Teacher				
			Student/Teacher Student/Teacher				
			Student/TedCHel				
			Teacher Only	Narrative			

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
			Teacher Only				
			Teacher Only				
			Teacher Only Teacher Only				
(4) The student plans, constructs, and maintains fences, corrals, and other agricultural enclosures. The student is expected to:	(B) estimate materials and building costs	(i) estimate materials	Student/Teacher	Narrative	9781614592082	Fencing Tools & Techniques	
			Student/Teacher	Activity	9781614592082	Assessment I - Planning & Location; Assessment I - Planning & Location Answer Key; Assessment II - Fencing Materials; Assessment II - Fencing Materials Answer Key; Activity - Determining the Material: Activity - Fence Planning; Project - Building the Fence	Fencing Tools & Techniques
			Student/Teacher			Fence	
			Student/Teacher				
			Student/Teacher Teacher Only	Narrative			
			Teacher Only				
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			Teacher Only Teacher Only				
			reacher Only			I .	

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
(4) The student plans, constructs, and maintains fences, corrals, and other agricultural enclosures. The student is expected to:	(B) estimate materials and building costs	(ii) estimate building costs	Student/Teacher	Narrative	9781614592082	Fencing Tools & Techniques	
			Student/Teacher	Activity	9781614592082	Assessment I - Planning & Location; Assessment I - Planning & Location Answer Key; Activity - Fence Planning; Project - Building the Fence	Fencing Tools & Techniques
			Student/Teacher				
			Student/Teacher Student/Teacher				
			Teacher Only Teacher Only	Narrative			
			Teacher Only				
			Teacher Only				
			Teacher Only				
(4) The student plans, constructs, and maintains fences, corrals, and other agricultural enclosures. The student is expected to:	(C) define appropriate construction methods that are friendly to the environment	(i) define appropriate construction methods that are friendly to the environment	Student/Teacher	Narrative	9781614592082	Fencing Tools & Techniques	
			Student/Teacher	Activity	9781614592082	Assessment I - Planning & Location; Assessment I - Planning & Location Answer Key; Activity - Fence Planning; Project - Building the Fence	Fencing Tools & Techniques
			Student/Teacher				
			Student/Teacher Student/Teacher				
			Student/Teacher				
			Teacher Only	Narrative			

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
			Teacher Only				
			Teacher Only Teacher Only				
			Teacher Only				
			reaction Offing				
(5) The student demonstrates construction techniques related to design and fabrication of agricultural equipment. The student is expected to:	(A) operate oxy-fuel and plasma cutting equipment safely	(i) operate oxy-fuel cutting equipment safely	Student/Teacher	Narrative	9781614592082	Oxy-Fuel Cutting	
			Student/Teacher	Activity	9781614592082	Activity - Welding Practice	Oxy-Fuel Cutting
			Student/Teacher			11401100	
			Student/Teacher				
			Student/Teacher				
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only				
			Teacher Only				
(5) The student demonstrates construction techniques related to design and fabrication of agricultural equipment. The student is expected to:	(A) operate oxy-fuel and plasma cutting equipment safely	(ii) operate plasma cutting equipment safely	Teacher Only Student/Teacher	Narrative	9781614592082	Plasma Arc Cutting	
			Student/Teacher	Activity	9781614592082	Activity - Cutting Practice; Activity - Techniques and Tips for Cutting Metal	Plasma Arc Cutting
			Student/Teacher				
			Student/Teacher				
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only				
			Teacher Only				
			Teacher Only				

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
(5) The student demonstrates construction techniques related to design and fabrication of agricultural equipment. The student is expected to:	(B) proficiently demonstrate safe electrical welding	(i) proficiently demonstrate safe electrical welding	Student/Teacher	Narrative	9781614592082	Shielded Metal Arc Welding: Preparation & Safety	
			Student/Teacher	Activity	9781614592082	Project - Inspection & Set Up	- Shielded Metal Arc Welding: Preparation & Safety
			Student/Teacher	Narrative	9781614592082	Gas Metal Arc Welding: Equipment, Set- Up & Maintenance	
			Student/Teacher	Activity	9781614592082	Activity - Gas Metal Arc Welding Set-Up	Gas Metal Arc Welding: Equipment, Set-Up & Maintenance
			Student/Teacher				
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only				
			Teacher Only				
(5) The student demonstrates construction techniques related to design and fabrication of agricultural equipment. The student is expected to:	(C) use hand and power tools safely in the construction and repair of agricultural equipment safely	(i) use hand tools safely in the construction of agricultural equipment	Teacher Only Student/Teacher	Narrative	9781614592082	Hand Tool ID & Terminology I; Hand Tool ID & Terminology II; Hand Tool ID & Terminology III	PLEASE NOTE: Due to space limitations, all narrative
			Student/Teacher	Activity	9781614592082	Project - Tool Presentation Project - Tool	Hand Tool ID & Terminology I
			Student/Teacher	Activity	9781614592082	Presentation Project - Tool	Hand Tool ID & Terminology II
			Student/Teacher	Activity	9781614592082	Presentation	Hand Tool ID & Terminology III
			Student/Teacher				
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only				
			Teacher Only				
			Teacher Only				

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
(5) The student demonstrates construction techniques related to design and fabrication of agricultural equipment. The student is expected to:	(C) use hand and power tools safely in the construction and repair of agricultural equipment safely	(ii) use hand tools safely in the repair of agricultural equipment safely	Student/Teacher	Narrative	9781614592082	Hand Tool ID & Terminology I; Hand Tool ID & Terminology II; Hand Tool ID & Terminology III	PLEASE NOTE: Due to space limitations, all narrative correlations are listed together. Corresponding activities are listed below with specific location listed to the right of each activity.
			Student/Teacher	Activity	9781614592082	Project - Tool Presentation	Hand Tool ID & Terminology I
			Student/Teacher	Activity	9781614592082	Project - Tool	Hand Tool ID & Terminology II
			Student/Teacher		9781614592082	Presentation Project - Tool	Hand Tool ID & Terminology III
			Student/Teacher	Activity		Presentation	
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only Teacher Only				
			Teacher Only				
(5) The student demonstrates construction techniques related to design and fabrication of agricultural equipment. The student is expected to:	(C) use hand and power tools safely in the construction and repair of agricultural equipment safely	(iii) use power tools safely in the construction of agricultural equipment	Student/Teacher	Narrative	9781614592082	Portable Wood Power Tools – I; Portable Wood Power Tools – II: Safety, Operation & ID; Large Wood Power Tools - I:	PLEASE NOTE: Due to space limitations, all narrative correlations are listed together. Corresponding activities are listed below with specific location listed to the right of each activity.
			Student/Teacher	Activity	9781614592082	Activity - Tool Set-Up; Project - Wood Power Tool Use	Portable Wood Power Tools – I
			Student/Teacher	Activity	9781614592082	Activity - Drill Bits; Project - Design and Build	Portable Wood Power Tools – II: Safety, Operation & ID
			Student/Teacher	Activity	9781614592082	Activity - Band Saw Puzzle; Project - Large Wood Power Tool Use	Large Wood Power Tools - I: Safety, Operation & ID
			Student/Teacher	Activity	9781614592082	Project - Using the Tools	Large Metal Power Tools: Safety and Operation
			Teacher Only	Narrative			
			Teacher Only Teacher Only				
			Teacher Only				
			Teacher Only				

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
(5) The student demonstrates construction techniques related to design and fabrication of agricultural equipment. The student is expected to:	(C) use hand and power tools safely in the construction and repair of agricultural equipment safely	(iv) use power tools safely in the repair of agricultural equipment	Student/Teacher	Narrative	9781614592082	Portable Wood Power Tools – I; Portable Wood Power Tools – II: Safety, Operation & ID; Large Wood Power Tools – I	PLEASE NOTE: Due to space limitations, all narrative correlations are listed together. Corresponding activities are listed below with specific location listed to the right of each activity.
			Student/Teacher	Activity	9781614592082	Activity - Tool Set-Up; Project - Wood Power Tool Use	Portable Wood Power Tools – I
			Student/Teacher	Activity	9781614592082	Activity - Drill Bits; Project - Design and Build	Portable Wood Power Tools – II: Safety, Operation & ID
			Student/Teacher	Activity	9781614592082	Activity - Band Saw Puzzle; Project - Large Wood Power Tool Use	Large Wood Power Tools - I: Safety, Operation & ID
			Student/Teacher	Activity	9781614592082	Project - Using the Tools	Large Metal Power Tools: Safety and Operation
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only Teacher Only				
			Teacher Only				
(6) The student demonstrates knowledge of laws and regulations related to the construction, design and fabrication of agricultural equipment. The student is expected to:	(A) incorporate industry standards developed by entities such as American National Standards Institute (ANSI), American Society of Agricultural Engineers (ASAE), or Occupational Safety and Health Administration (OSHA) into the construction of agricultural equipment	(f) incorporate industry standards developed by entities into the construction of agricultural equipment	Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - I	
			Student/Teacher	Activity	9781614592082	Student Handout - Industry Standards & Compliance Laws	Gooseneck Stock Trailer Construction - I
			Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - II	
			Student/Teacher	Activity	9781614592082	Student Handout - Industry Standards & Compliance Laws	Gooseneck Stock Trailer Construction - II
			Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - III	

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
			Teacher Only	Narrative			
			Teacher Only Teacher Only				
			Teacher Only Teacher Only				
(6) The student demonstrates knowledge of laws and regulations related to the construction, design and fabrication of agricultural equipment. The student is expected to:	(B) design and build equipment in compliance with state and federal laws enforced by agencies such as the U.S. Department of Transportation (DOT)	(i) design equipment in compliance with state laws enforced by agencies	Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - I	
			Student/Teacher	Activity	9781614592082	Student Handout - Industry Standards & Compliance Laws; Project - DOT Rules in Your State	Gooseneck Stock Trailer Construction - I
			Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - II	
			Student/Teacher	Activity	9781614592082	Student Handout - Industry Standards & Compliance Laws	Gooseneck Stock Trailer Construction - II
			Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - III	
			Teacher Only	Narrative			
			Teacher Only Teacher Only				
			Teacher Only Teacher Only				

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
(6) The student demonstrates knowledge of laws and regulations related to the construction, design and fabrication of agricultural equipment. The student is expected to:	(B) design and build equipment in compliance with state and federal laws enforced by agencies such as the U.S. Department of Transportation (DOT)	(ii) design equipment in compliance with federal laws enforced by agencies	Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - I	
			Student/Teacher	Activity	9781614592082	Student Handout - Industry Standards & Compliance Laws; Project - DOT Rules in Your State	Gooseneck Stock Trailer Construction - I
			Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - II	
			Student/Teacher	Activity	9781614592082	Student Handout - Industry Standards & Compliance Laws	Gooseneck Stock Trailer Construction - II
			Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - III	
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only Teacher Only				
			Teacher Only				
(6) The student demonstrates knowledge of laws and regulations related to the construction, design and fabrication of agricultural equipment. The student is expected to:	(B) design and build equipment in compliance with state and federal laws enforced by agencies such as the U.S. Department of Transportation (DOT)	(iii) build equipment in compliance with state laws enforced by agencies	Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - I	
			Student/Teacher	Activity	9781614592082	Student Handout - Industry Standards & Compliance Laws; Project - DOT Rules in Your State	Gooseneck Stock Trailer Construction - I
			Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - II	
			Student/Teacher		9781614592082	Student Handout - Industry Standards & Compliance	Gooseneck Stock Trailer Construction - II
				Activity	1	Laws	

Knowledge and Skills Statement	Student Expectation	Breakout	Item Type	Citation Type	Component ISBN	Page (s)	Specific Location
			Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - III	
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only				
			Teacher Only				
			Teacher Only				
(6) The student demonstrates knowledge of laws and regulations related to the construction, design and fabrication of agricultural equipment. The student is expected to:	(B) design and build equipment in compliance with state and federal laws enforced by agencies such as the U.S. Department of Transportation (DOT)	(iv) build equipment in compliance with federal laws enforced by agencies	Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - I	
			Student/Teacher	Activity	9781614592082	Student Handout - Industry Standards & Compliance Laws; Project - DOT Rules in Your State	Gooseneck Stock Trailer Construction - I
			Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - II	
			Student/Teacher	Activity	9781614592082	Student Handout - Industry Standards & Compliance Laws	Gooseneck Stock Trailer Construction - II
			Student/Teacher	Narrative	9781614592082	Gooseneck Stock Trailer Construction - III	
			Teacher Only	Narrative			
			Teacher Only				
			Teacher Only				
			Teacher Only Teacher Only				
			reacher Only	l	<u> </u>	<u> </u>	<u> </u>