

Ag Science I		ELA	Math	Science	SS
1	Articulate the scope of careers in agriculture.	9-10.W.1.A			
2	Describe the history and operations of FFA and agricultural education.	9-10.RI.3.D			9.12.AH.CC.A
3	Articulate and develop leadership skills.	9-10.SL.1.A; 9-10.SL.2A; 9-10.SL.2.B			
4	Develop an SAE Program.	9-10.W.1.A		9-12.ETS1.B.1	
5	Develop a plan for financial records		A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7		
6	Describe the economic impact, types, and management practices within the animal industry in the community and state.	9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7	9-12.LS2.C.1; 9-12.LS2.C.2; 9-12.LS4.B.1	
7	Compare and contrast the body systems (digestive and reproductive) of different animal species important to Missouri.	9-10.RI.1.C		9-12.LS3.A.1; 9-12.LS3.B.1	
8	Safely operate basic hand and power tools.	9-10.RI.1.C; 9-10.RI.3.D			
					10/2019

Ag Science II		ELA	Math	Science	SS
1	Describe qualities, attributes, and skills necessary to succeed in, or further prepare for chosen AFNR careers.	9-10.RI.3.D; 9-10.W.1.A			9-12.AH.1.GS.B
2	Demonstrate communication, problem-solving, decision-making, and leadership skills.	9-10.W.1.A; 9-10.SL.1.A; 9-10.SL.1.B; 9-10.SL.1.C; 9-10.SL.2.A; 9-10.SL.B; 9-10-SL.2.C; 11-12.SL.1.A; 11-12.SL.1.B; 11-12.SL.1.C; 11-12.SL.2.A; 11-12.SL.2.B; 11-12.SL.2.C			9-12.AH.1.GS.C
3	Analyze and evaluate SAE program and record keeping procedures.	9-10.RI.3.D; 9-10.W.1.A	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7		
4	Identify and explain the importance, function, growth, and development of plants.	9-10.RI.1.C; 9-10.RI.3.D		9-12.LS1.C.1; 9-12.LS1.C.2; 9-12.LS2.B.1; 9-12.LS2.B.3	
5	Identify and explain the importance, function, and development of soils.	9-10.RI.1.C; 9-10.RI.3.D		9-12.ESS3.C.1	
6	Demonstrate the principles and techniques to manage natural resources and environmental systems.	9-10.RI.1.C; 9-10.RI.3.D		9-12.LS2.A.1; 9-12.LS2.B.1; 9-12.LS2.B.3; 9-12.LS2.C.1; 9-12.LS2.C.2; 9-12.LS4.B.1; 9-12.LS4.C.1; 9-12.ESS3.A.1; 9-12.ESS3.A.2; 9-12.ESS3.C.1	9-12.WH.3.G.B; 9-12.WH.3.G.A
7	Demonstrate skills to safely complete welding and metal cutting processes.	9-10.RI.1.C; 9-10.RI.3.D			
8	Demonstrate skills necessary to select, plan, estimate, and complete an agricultural mechanics laboratory project.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7; G.CO.D.11; G.MG.A.1		
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Ag Construction		ELA	Math	Science	SS
1	Develop communication, problem-solving, decision-making, and leadership skills to further prepare for chosen AFNR careers.	9-10.W.1.A; 9-10.SL.1.A; 9-10.SL.1.B; 9-10.SL.1.C; 9-10.SL.2A; 9-10.SL.B; 9-10-SL.2.C; 11-12.SL.1.A; 11-12.SL.1.B; 11-12.SL.1.C; 11-12.SL.2.A; 11-12.SL.2.B; 11-12.SL.2.C			
2	Create a plan for developing skills and competencies needed to secure a job in their chosen AFNR career.	9-10.RI.3.D; 9-10.W.1.A; 9-10.SL.2.A; 11-12.SL.2.A			
3	Incorporate agricultural construction skills within a SAE project.	9-10.RI.3.D; 9-10.W.1.A		9-12.ETS1.B.1	
4	Analyze and evaluate SAE program and record keeping procedures.	9-10.RI.3.D; 9-10.W.1.A	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7		
5	Demonstrate the safe procedures for use of hand and power tools in metal and wood working operations.	9-10.RI.1.C; 9-10.RI.3.D			
6	Evaluate personal protective equipment and shop environment for potential dangers and apply corrective procedures.	9-10.RI.1.C; 9-10.RI.3.D			
7	Analyze the metallurgy and weldability of carbon steel, stainless steel, and aluminum.	9-10.RI.1.C; 9-10.RI.3.D			
8	Adjust common electric and flame welding apparatus and create a weld to meet industry standards.	9-10.RI.1.C; 9-10.RI.3.D		9-12.PS1.B.1	
9	Develop a project plan to estimate the materials, procedures, cost, and time needed to create a metal or wood project.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7; G.CO.D.11; G.MG.A.1		
10	Select and safely apply an appropriate finish to a metal/wood project.	9-10.RI.1.C; 9-10.RI.3.D			
11	Diagnose and solve issues in planning, fabrication, and repair processes.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7; G.CO.D.11; G.MG.A.1		
12	Select and apply appropriate manufacturing practices to create a metal/wood project.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7; G.CO.D.11; G.MG.A.1		
					10/2019

Ag Machinery		ELA	Math	Science	SS
1	Develop communication, problem-solving, decision-making, and leadership skills to further prepare for chosen AFNR careers.	9-10.W.1.A; 9-10.SL.1.A; 9-10.SL.1.B; 9-10.SL.1.C; 9-10.SL.2.A; 9-10.SL.B; 9-10-SL.2.C; 11-12.SL.1.A; 11-12.SL.1.B; 11-12.SL.1.C; 11-12.SL.2.A; 11-12.SL.2.B; 11-12.SL.2.C			
2	Create a plan for developing skills and competencies needed to secure a job in their chosen AFNR career.	9-10.RI.3.D; 9-10.W.1.A; 9-10.SL.2.A; 11-12.SL.2.A			
3	Incorporate agricultural machinery skills within a SAE project.	9-10.RI.3.D; 9-10.W.1.A		9-12.ETS1.B.1	
4	Analyze and evaluate SAE program and record keeping procedures.	9-10.RI.3.D; 9-10.W.1.A	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7		
5	Describe the features, benefits, and applications of mechanical drive system components.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7	9-12.PS3.A.3	
6	Explain the function of lubrication, bearings, and seals in mechanical systems.	9-10.RI.1.C; 9-10.RI.3.D			
7	Identify principles, application, and major components of hydraulic systems.	9-10.RI.1.C; 9-10.RI.3.D		9-12.PS3.A.3	
8	Analyze pneumatic system operation and applications for maintenance and troubleshooting.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7	9-12.PS3.A.3	
9	Explain the functions, operations, and applications of transmissions, differentials, and clutches.	9-10.RI.1.C; 9-10.RI.3.D		9-12.PS3.A.3	
					10/2019

Ag Power I & II		ELA	Math	Science	SS
1	Develop communication, problem-solving, decision-making, and leadership skills to further prepare for chosen AFNR careers.	9-10.W.1.A; 9-10.SL.1.A; 9-10.SL.1.B; 9-10.SL.1.C; 9-10.SL.2A; 9-10.SL.B; 9-10-SL.2.C; 11-12.SL.1.A; 11-12.SL.1.B; 11-12.SL.1.C; 11-12.SL.2.A; 11-12.SL.2.B; 11-12.SL.2.C			
2	Create a plan for developing skills and competencies needed to secure a job in their chosen AFNR career.	9-10.RI.3.D; 9-10.W.1.A; 9-10.SL.2.A; 11-12.SL.2.A			
3	Incorporate agricultural power skills within a SAE project.	9-10.RI.3.D; 9-10.W.1.A		9-12.ETS1.B.1	
4	Analyze and evaluate SAE program and record keeping procedures.	9-10.RI.3.D; 9-10.W.1.A	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7		
5	Explain the relationship between work, power, and torque.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7		
6	Analyze principles of operation for single cylinder, multi-cylinder, 2 cycle, 4 cycle, and diesel motors.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7; G.GMD.A.2	9-12.PS2.A.1; 9-12.PS3.A.3	
7	Analyze cooling, ignition, fuel, hydraulic, steering, intake and exhaust, compression, lubrication, injection, governor, electronic, electrical, and comfort systems in a multi-cylinder power unit.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7	9-12.ETS1.A.2; 9-12.PS3.A.3	
8	Distinguish between tools including; measuring, analysis, parts, and fasteners.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7		
9	Analyze engines, powertrains, and hydraulics for servicing; utilizing service manuals.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7	9-12.ETS1.A.2; 9-12.PS3.A.3	
					10/2019

Ag Structures		ELA	Math	Science	SS
1	Develop communication, problem-solving, decision-making, and leadership skills to further prepare for chosen AFNR careers.	9-10.W.1.A; 9-10.SL.1.A; 9-10.SL.1.B; 9-10.SL.1.C; 9-10.SL.2A; 9-10.SL.B; 9-10-SL.2.C; 11-12.SL.1.A; 11-12.SL.1.B; 11-12.SL.1.C; 11-12.SL.2.A; 11-12.SL.2.B; 11-12.SL.2.C			
2	Create a plan for developing skills and competencies needed to secure a job in their chosen AFNR career.	9-10.RI.3.D; 9-10.W.1.A; 9-10.SL.2.A; 11-12.SL.2.A			
3	Incorporate agricultural structure skills within a SAE project.	9-10.RI.3.D; 9-10.W.1.A		9-12.ETS1.B.1	
4	Analyze and evaluate SAE program and record keeping procedures.	9-10.RI.3.D; 9-10.W.1.A	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7		
5	Demonstrate safety procedures associated with building construction, concrete, electricity, and plumbing.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7; G.CO.D.11; G.MG.A.1		
6	Apply principles of building design, construction practices, material selection, and support systems.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7; G.CO.D.11; G.MG.A.1	9-12.ESS3.A.2; 9-12.ESS3.C.1	9-12.WH.5.G.B
7	Explain site selection, site preparation, and procedures for ordering, pouring, and finishing quality concrete projects.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7; G.CO.D.11; G.MG.A.1	9-12.ESS3.A.2; 9-12.ESS3.C.1	
8	Apply electrical principles, components and equipment to design and/or troubleshoot electrical systems.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7		
9	Analyze plumbing systems and demonstrate proper use of materials, tools, and equipment.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7; G.CO.D.11; G.MG.A.1		
10	Compare and contrast operation and efficiency of sustainable energy resources.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7	9-12.ESS3.A.2; 9-12.ESS3.C.1	9-12.WH.5.G.B
					10/2019

Ani Sci - Adv Livestock		ELA	Math	Science	SS
1	Develop communication, problem-solving, decision-making, and leadership skills to further prepare for chosen AFNR careers.	9-10.W.1.A; 9-10.SL.1.A; 9-10.SL.1.B; 9-10.SL.1.C; 9-10.SL.2A; 9-10.SL.B; 9-10-SL.2.C; 11-12.SL.1.A; 11-12.SL.1.B; 11-12.SL.1.C; 11-12.SL.2.A; 11-12.SL.2.B; 11-12.SL.2.C			
2	Explore a career area by investigating entry level job opportunities at local agribusiness and prepare a resume and letters of application.	9-10.RI.3.D; 9-10.W.1.A; 9-10.SL.2.A; 11-12.SL.2.A			
3	Incorporate animal science skills within a SAE project.	9-10.RI.3.D; 9-10.W.1.A		9-12.ETS1.B.1	
4	Analyze and evaluate SAE program and record keeping procedures.	9-10.RI.3.D; 9-10.W.1.A	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7		
5	Evaluate current issues in animal agriculture.	9-10.RI.1.A; 9-10.RI.1.C; 9-10.RI.3.D			9-12.WH.4.G.C
6	Utilize management principles to establish and maintain a successful livestock enterprise.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7	9-12.LS2.A.1; 9-12.LS2.C.1; 9-12.ETS1.B.1	
7	Apply principles of livestock evaluation in animal selection.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7	9-12.LS3.B.3; 9-12.LS3.B.4; 9-12.LS4.A.1	
8	Assess livestock facility needs by devising a plan.	9-10.RI.1.C; 9-10.RI.3.D; 9-10.W.1.A; 9-10.W.3.A	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7	9-12.ESS3.A.1; 9-12ESS3.C.1	
9	Demonstrate an understanding of livestock nutrition, health, reproduction, management, and marketing.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7	9-12.LS2.A.1; 9-12.LS2.C.2; 9-12.LS3.A.1; 9-12.LS3.B.1; 9-12.LS3.B.3; 9-12.LS3.B.4	
					10/2019

Food Science		ELA	Math	Science	SS
1	Develop communication, problem-solving, decision-making, and leadership skills to further prepare for chosen AFNR careers.	9-10.W.1.A; 9-10.SL.1.A; 9-10.SL.1.B; 9-10.SL.1.C; 9-10.SL.2A; 9-10.SL.B; 9-10-SL.2.C; 11-12.SL.1.A; 11-12.SL.1.B; 11-12.SL.1.C; 11-12.SL.2.A; 11-12.SL.2.B; 11-12.SL.2.C			
2	Create a plan for developing skills and competencies needed to secure a job in their chosen AFNR career.	9-10.RI.3.D; 9-10.W.1.A; 9-10.SL.2.A; 11-12.SL.2.A			
3	Incorporate food science skills within a SAE project.	9-10.RI.3.D; 9-10.W.1.A		9-12.ETS1.B.1	
4	Analyze and evaluate SAE program and record keeping procedures.	9-10.RI.3.D; 9-10.W.1.A	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7		
5	Describe the principles of food preservation.	9-10.RI.1.C; 9-10.RI.3.D		9-12.PS1.A.3; 9-12.PS1.B.1	
6	Explain the procedures to process food safely.	9-10.RI.1.A; 9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7	9-12.PS3.B.1	
7	Describe the complexity of the development of food products.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7	9-12.PS1.B.1; 9-12LS1.C.2	9-12.GV.1.GS.A; 9-12.WH.4.G.C
8	Identify products and/or by-products produced from milk, eggs, meat animals, grain crops, fruit, vegetable, and nuts.	9-10.RI.1.C; 9-10.RI.3.D			
9	Describe how products from milk, eggs, meat animals, grain crops, fruit, vegetable, and nuts are processed and packaged.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7	9-12.PS1.B.1	9-12.GV.1.GS.A
10	Identify the factors that affect food safety and quality and problems resulting from food deterioration.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7	9-12.PS3.B.1; 9-12.PS1.B.1	
11	Describe the nutritional properties of food and how processing techniques influence the nutritional value of food.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7		
12	Describe the factors that affect consumer choice of food.	9-10.RI.1.C; 9-10.RI.3.D		9-12.ET5.A.1	
					10/2019

Forestry & Wildlife		ELA	Math	Science	SS
1	Develop communication, problem-solving, decision-making, and leadership skills to further prepare for chosen AFNR careers.	9-10.W.1.A; 9-10.SL.1.A; 9-10.SL.1.B; 9-10.SL.1.C; 9-10.SL.2A; 9-10.SL.B; 9-10-SL.2.C; 11-12.SL.1.A; 11-12.SL.1.B; 11-12.SL.1.C; 11-12.SL.2.A; 11-12.SL.2.B; 11-12.SL.2.C			
2	Create a plan for developing skills and competencies needed to secure a job in their chosen AFNR career.	9-10.RI.3.D; 9-10.W.1.A; 9-10.SL.2.A; 11-12.SL.2.A			
3	Incorporate forestry and wildlife skills within a SAE project.	9-10.RI.3.D; 9-10.W.1.A		9-12.ETS1.B.1	
4	Analyze and evaluate SAE program and record keeping procedures.	9-10.RI.3.D; 9-10.W.1.A	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7		
5	Define and describe natural resource conservation, including the its history, trends, legalities and ethics, and public response.	9-10.RI.1.C; 9-10.RI.3.D		9-12.LS2.A.1; 9-12.LS2.C.1; 9-12.LS2.C.2; 9-12.LS4.B.1; 9-12.ESS3.A.1; 9-12.ESS3.C.2	9-12.GV.1.GS.A; 9-12.WH.3.G.A; 9-12.WH.4.G.C
6	Explain the recreational values of fish and wildlife resources in relation to humans and the environment.	9-10.RI.1.C; 9-10.RI.3.D		9-12.LS2.A.1; 9-12.LS2.C.1; 9-12.LS2.C.2; 9-12.LS4.B.1; 9-12.ESS3.A.1; 9-12.ESS3.C.2	9-12.WH.4.G.C
7	Describe and evaluate the social, aesthetic, scientific, and educational value of fish and wildlife resources.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7	9-12.ESS3.A.1; 9-12.ESS3.C.2	
8	Explain ecological principles and how they apply to fish and wildlife management.	9-10.RI.1.C; 9-10.RI.3.D		9-12.LS2.A.1; 9-12.LS2.C.1; 9-12.ESS2.C.1; 9-12.LS4.B.1	
9	Design a cropland management plan for wildlife.	9-10.RI.1.C; 9-10.RI.3.D; 9-10.W.1.A; 9-10.W.3.A	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7	9-12.LS2.A.1; 9-12.LS2.C.1; 9-12.LS2.C.2; 9-12.LS4.B.1; 9-12.ETS1.B.1	9-12.WH.5.G.B
10	Select grassland and/or forest management practices that can improve wildlife habitat.	9-10.RI.1.C; 9-10.RI.3.D	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7	9-12.LS2.A.1; 9-12.LS2.C.1; 9-12.LS2.C.2; 9-12.LS4.B.1; 9-12.ESS3.C.1; 9-12.ESS3.C.2; 9-12.ETS1.B.1	
11	Describe various water environments (wetlands, ponds, streams, rivers, creeks) and their importance and relation to fish and wildlife habitat.	9-10.RI.1.C; 9-10.RI.3.D		9-12.LS2.A.1; 9-12.LS2.C.1; 9-12.LS2.C.2; 9-12.LS4.B.1	
12	Plan a pond using available resources and appropriate construction and management techniques.	9-10.RI.1.C; 9-10.RI.3.D; 9-10.W.1.A; 9-10.W.3.A	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7	9-12.LS2.A.1; 9-12.LS2.C.1; 9-12.LS2.C.2; 9-12.LS4.B.1; 9-12.ESS3.C.1; 9-12.ESS3.C.2; 9-12.ETS1.B.1	
13	Discuss reasons for fish and wildlife regulations, how they are made and enforced, and the legal process for violations in Missouri.	9-10.RI.1.C; 9-10.RI.3.D		9-12.LS2.C.1; 9-12.LS2.C.2; 9-12.LS4.B.1; 9-12.ESS3.C.2; 9-12.ETS1.B.1	9-12.GV.1.GS.A
					10/2019

Greenhouse		ELA	Math	Science	SS
1	Develop communication, problem-solving, decision-making, and leadership skills to further prepare for chosen AFNR careers.	9-10.W.1.A; 9-10.SL.1.A; 9-10.SL.1.B; 9-10.SL.1.C; 9-10.SL.2.A; 9-10.SL.B; 9-10-SL.2.C; 11-12.SL.1.A; 11-12.SL.1.B; 11-12.SL.1.C; 11-12.SL.2.A; 11-12.SL.2.B; 11-12.SL.2.C			
2	Create a plan for developing skills and competencies needed to secure a job in their chosen AFNR career.	9-10.RI.3.D; 9-10.W.1.A; 9-10.SL.2.A; 11-12.SL.2.A			
3	Incorporate plant science skills within a SAE project.	9-10.RI.3.D; 9-10.W.1.A		9-12.ETS1.B.1	
4	Analyze career opportunities within the Greenhouse Industry.	9-10.RI.3.D; 9-10.W.1.A			
5	Analyze and evaluate SAE program and record keeping procedures.	9-10.RI.3.D; 9-10.W.1.A	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7		
6	Examine greenhouse parts, structures, coverings, layouts, environmental controls and other equipment found in a greenhouse.	9-10.RI.1.C; 9-10.RI.3.D		9-12.LS1.C.1; 9-12.LS2.B.1; 9-12.ETS1.B.1	
7	Demonstrate and analyze proper methods for planting seeds, transplanting seedlings, asexual reproduction, potting, and watering plants.	9-10.RI.1.C; 9-10.RI.3.D		9-12.LS1.C.3; 9-12.LS3.B.1	
8	Distinguish types and components of growing media and their uses.	9-10.RI.1.C; 9-10.RI.3.D		9-12.LS1.C.3	
9	Classify plants and tools that are important to the Missouri greenhouse/floriculture industry.	9-10.RI.1.C; 9-10.RI.3.D			
10	Demonstrate ability to apply the principles of a Greenhouse business by developing a commercial crop plan, creating a marketing plan, or conducting a plant sale.	9-10.RI.1.C; 9-10.RI.3.D; 9-10.W.1.A; 9-10.W.3.A	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7	9-12.ETS1.B.1	
					10/2019

Landscape & Turf		ELA	Math	Science	SS
1	Develop communication, problem-solving, decision-making, and leadership skills to further prepare for chosen AFNR careers.	9-10.W.1.A; 9-10.SL.1.A; 9-10.SL.1.B; 9-10.SL.1.C; 9-10.SL.2A; 9-10.SL.B; 9-10-SL.2.C; 11-12.SL.1.A; 11-12.SL.1.B; 11-12.SL.1.C; 11-12.SL.2.A; 11-12.SL.2.B; 11-12.SL.2.C			
2	Incorporate plant and soils science skills within a SAE project.	9-10.RI.3.D; 9-10.W.1.A; 9-10.SL.2.A; 11-12.SL.2.A		9-12.ETS1.B.1	
3	Analyze career opportunities within the Landscaping and Turf Industry.	9-10.RI.3.D; 9-10.W.1.A			
4	Analyze and evaluate SAE program and record keeping procedures.	9-10.RI.3.D; 9-10.W.1.A	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7		
5	Create a plan for developing skills and competencies needed to secure a job in their chosen AFNR career.	9-10.RI.3.D; 9-10.W.1.A			
6	Describe landscape installation, growth requirements, maintenance, and weed and pest control.	9-10.RI.1.C; 9-10.RI.3.D		9-12.ETS1.B.1	
7	Identify and explain the elements and principles used to create a landscape design.	9-10.RI.1.C; 9-10.RI.3.D			
8	Produce a landscape design using site analysis, plant growth considerations, landscape enrichments, and cost estimates.	9-10.RI.1.C; 9-10.RI.3.D; 9-10.W.1.A; 9-10.W.3.A	A1.NQ.B.3a-d; A1.NQ.B.5; A2.DS.A.7	9-12.ETS1.B.1; 9-12.LS1.C.3; 9-12.LS2.C.2; 9-12.ESS3.A.2; 9-12.ESS3.C.1	
9	Classify common pests and diseases found in Missouri greenhouses and evaluate various pest management methods and safe usage and application of pesticides.	9-10.RI.1.C; 9-10.RI.3.D			
					10/2019