A crosswalk provides educators with a list of benchmark statements aligned to Common Core and national content area standards for a given course or program. The Missouri Greenhouse Operation and Management Crosswalk lists a sequence of content, organized into distinct units of instruction.

	Common Core Standards	National Standards (AFNR)	Activities	Enhancements
A. Greenhouse Business Management				
Plan a commercial crop.	RI.11-12.7 RH.11-12.7 RST.11-12.3 RST.11-12.9 A-SSE.3 Modeling			
2. Develop a basic marketing plan.	RI.11-12.7 RH.11-12.7 RST.11-12.9 WHST.11-12.2 A-SSE.3 Modeling			
3. Unit: Apply principles of greenhouse business management by generating a cost analysis and marketing plan for a greenhouse.	RI.11-12.7 RH.11-12.7 RST.11-12.9 WHST.11-12.2 A-SSE.3 Modeling			
B. Growing Structures				
Distinguish types of greenhouses by materials, structures, and layout.	RI.11-12.7 RH.11-12.7 RST.11-12.9 RI1.1-12.3 A-SSE.3 Modeling			
2. Describe how environmental factors in a	RI.11-12.7			

		Common	National		
		Core	Standards	Activities	Enhancements
		Standards	(AFNR)		
	greenhouse are controlled.	RH.11-12.7	, ,		
		RST.11-12.9			
		RI.11-12.3			
		SL.11-12.4			
		A-SSE.3			
		Modeling			
3.	Identify energy and cost-saving factors	RI.11-12.7			
	in greenhouse structures.	RH.11-12.7			
		RST.11-12.9			
		RI.11-12.3			
		A-SSE.3			
		Modeling			
4.	Unit: Demonstrate an understanding of	RI.11-12.7			
	greenhouse structures by making a scale	RH.11-12.7			
	model greenhouse and providing	RST.11-12.9			
	specifics on the materials and costs	RI.11-12.3			
	involved.	SL.11-12.4			
		A-SSE.3			
		Modeling			
	int Growth				
1.	Describe environment necessary for	SL.11-12.1			
	optimal plant growth.	SL.11-12.4			
2.	Distinguish components of growing	RI.11-12.7			
	media, their uses, and basic types and	RH.11-12.7			
	sizes of containers.	RST.11-12.9			
	Explain factors involved in proper greenhouse irrigation.	SL.11-12.4			
4.	Identify nutrients essential for plant	RI.11-12.7			
	growth and development and signs of	RH.11-12.7			
	deficiency or toxicity.	RST.11-12.9			
5.	Identify the need for fertilizer.	SL.11-12.1			
		RH.11-12.7			
		RST.11-12.9			
6.	Unit: Demonstrate an understanding of	RI.11-12.7			
	the basic plant processes of germination	RH.11-12.7			
	and photosynthesis by conducting a seed	RST.11-12.9			

	Common Core Standards	National Standards (AFNR)	Activities	Enhancements
germination experiment and writing a summary of their findings.	RST.11-12.2 W.11-12.7 8.SP.1 A-REI.4	(y		
D. Plant Health				
Identify pests and diseases in the greenhouse and factors that contribute to their presence.	RST.11-12.9			
Differentiate between various pest management methods.	RST.11-12.1 RST.11-12.4 RST.11-12.7			
Explain safe usage and application of pesticides.	RST.11-12.1 RST.11-12.4 RST.11-12.7 SL.11-12.4 A-REI.4 G-MG.2			
4. Unit: Demonstrate an understanding of a plant pest and disease by writing a report on each that describes the pest and disease and identifies the control method.	RST.11-12.1 RST.11-12.4 RST.11-12.7 SL.11-12.4 W.11-12.2			
E. Plant Propagation				
Demonstrate the correct method for sexual propagation in the greenhouse environment.	SL.11-12.4			
2. Differentiate between various types of asexual propagation procedures.	RST.11-12.9			
Unit: Apply principles of plant propagation by properly propagating a plant and describing the process in written form.	W.11-12.2 RST.11-12.3 RST.11-12.9			
F. Plant Science Basics				
Distinguish plant parts, structures, and functions.	SL.11-12.2			
2. Identify the growth processes of a plant.	SL.11-12.2			

		Common Core Standards	National Standards (AFNR)	Activities	Enhancements
3.	Distinguish plants by characteristics and purpose.	SL.11-12.2			
4.	Unit: Demonstrate an understanding of plant science by creating a plant collection in which plants will be identified and labeled as to the type of root, leaf shape, leaf margin, leaf attachment, and venation.	SL.11-12.1.d SL.11-12.2 SL.11-12.4 SL.11-12.6 RST.11-12.9			
G. Th	e Greenhouse Industry				
1.	Identify the scope and development of the greenhouse industry.	RI.11-12.1 RI.11-12.2 RI.11-12.3			
2.	Outline career paths and SAE (Supervised Agricultural Experience) opportunities available in the greenhouse industry.	RI.11-12.7 RH.11-12.7			
3.	Unit: Demonstrate an understanding of the requirements of a position in the greenhouse industry by researching the position and presenting their findings on a presentation that will be given in class.	RI.11-12.7 RH.11-12.7 SL.11-12.4 SL.11-12.5			

Codes for Common Core Mathematics are:

- N = Number and Quantity
- A = Algebra
- F = Functions
- G = Geometry
- S = Statistics and Probability

Codes for Common Core English Language Arts and Literacy are:

- RL = Reading for Literature
- RI = Reading for Informational Text
- RST = Reading for Literacy in Science and Technical Subjects

- RH = Reading for Literacy in History/Social Studies
- W = Writing
- WHST = Writing for Literacy in History/Social Studies, Science, and Technical Subjects
- SL = Speaking and Listening
- L = Language