

## **Mi-STAR Unit Progression Model (Grades 6-8)**

## With NGSS Performance Expectations (PEs) and Unifying Crosscutting Concepts (UCCC) Mi-STAR is made possible by a grant from the Herbert H. and Grace A. Dow Foundation.

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Grade	1st Semester Units				2 <sup>nd</sup> Semester Units					
UCCC	Systems and system models				Patterns / Cause and effect					
6	6.1 <sup>+</sup> The water cycle  MS-ESS2-4	6.2 <sup>+</sup> Investigating and modeling body systems  MS-LS1-1 MS-LS1-2	6.3 <sup>+</sup> Chemical processes in organism digestion MS-LS1-7	6.4 <sup>+</sup> Forces and motion  MS-PS2-1	6.5 <sup>+</sup> Plant growth		6.6 Interaction ecosys  MS-LS	ns within tems 2-1*	6.7 <sup>+</sup> Cycling of energy and matter through food webs  MS-LS1-6	
	MS-PS1-4 MS-ETS1-1* (ETS1.A) <sub>W, B</sub>	MS-LS1-3 MS-ETS1-3* (ETS1.B) <sub>P</sub>	MS-PS1-2 MS-PS1-5 MS-PS1-6	MS-PS2-2 MS-ETS1-1*	MS-LS1-5 MS-LS2-1*			-LS2-2 -LS2-4 ETS1-2		MS-LS1-6 MS-LS2-3
UCCC		Structure and function								
7	7.1 <sup>+</sup> Creating an energy plan	7.2 Cycling and use of minerals	7.3 <sup>+</sup> Moving thermal energy	7.4 <sup>+</sup> Life cycle of building materials	7.5 How humans affect plant/animal reproduction		7.6 Genetics and agriculture  7.7 Water chemand qual		•	7.8 Maintaining ecosystem services
	MS-PS2-3 MS-PS3-1 MS-PS3-2 MS-PS3-5	MS-ESS2-1 MS-ESS2-2 MS-ESS2-3* (ESS2.B) MS-PS1-1* (PS1.A) <sub>ES</sub>	MS-PS3-3 MS-PS3-4 MS-ETS1-4	MS-PS1-3 MS-ESS3-1 MS-ESS3-4* (ESS3.C) MS-PS3-3* (PS3.A,B) <sub>EE</sub>	MS-LS1-4 MS-ESS3-3	MS-	-LS1-5* (LS1.B) MS-LS3-1 MS-LS3-2 MS-LS4-5	MS-PS1-1 MS-ESS2-2* (ESS2.C) MS-ESS3-1* (ESS3.ф)		MS-LS2-5 MS-ETS1-3
UCCC	Scale, proportion, and quantity				Stability and change					
8	8.1 Natural selection and antibiotics	8.2 History of life on earth	8.3 Sound and light waves in communication	8.4 Solar system, forces, and seasons	8.5 Weather, climate, and Michigan agriculture  MS-ESS1-1 MS-ESS2-5 MS-ESS2-6		8.6 <sup>+</sup> Natural hazards		(	8.7 <sup>+</sup> Climate change
	MS-LS3-1* (LS3.B) MS-LS4-4 MS-LS4-6	MS-LS4-1 MS-LS4-2 MS-LS4-3 MS-ESS1-4 s	MS-PS2-5 MS-PS4-1 MS-PS4-2 MS-PS4-3 MS-LS1-8	MS-ESS1-1* (ESS1.A) MS-ESS1-2 MS-ESS1-3 MS-PS2-4 ES			MS-ESS3-2 MS-ESS2-3			MS-ESS3-4 MS-ESS3-5

**Key:** Each unit addresses a theme, as indicated by the following color/letter coding:

Human & Public Health P Built Environment B Food & Agriculture F Water Resources W Sustainable Ecosystems S Earth & Space Systems ES Earth & Energy Resources EE