

indicated by the following color/letter coding:

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. Neither Achieve nor the NGSS lead states and partners were involved in the production of this product.

Grade	1st Semester Units					2 nd Semester Units					
UCCC	Systems and system models					Patterns / Cause and effect					
6	6.1 ⁺ Protecting our community's water through land use MS-ESS2-4 MS-PS1-4 MS-ETS1-1* (ETS1.A) W, B	6.2 Investigating and modeling body systems MS-LS1-1 MS-LS1-2 MS-LS1-3 MS-ETS1-3* (ETS1.B) P	MS-LS1-7 MS-PS1-2 MS-PS1-5 MS-PS1-6	6.4 Protecting device from everyday for MS-PS2-1 MS-PS2-2 MS-ETS1-1*		6.5 What plants need to grow MS-LS1-5 MS-LS2-1*				•	6.7 cling of matter and y through food webs MS-LS1-6 MS-LS2-3
UCCC	Energy and matter					Structure and function					
7	7.1 ⁺ Generating electricity MS-PS2-3 MS-PS3-1 MS-PS3-2 MS-PS3-5 EE	7.2 Cycling and use of minerals MS-ESS2-1 MS-ESS2-2 MS-ESS2-3* (ESS2.B) MS-PS1-1* (PS1.A) _{ES}	7.3 ⁺ Selecting sustainable building materials by modeling their life cycle MS-PS1-3 MS-ESS3-1 MS-ESS3-4* (ESS3.C) MS-PS3-3* (PS3.A,B)	7.4 Designing a device regulate thermal energy transfer MS-PS3-3 MS-PS3-4 MS-ETS1-4	p r	7.5 humans affect plant/animal eproduction MS-LS1-4 MS-ESS3-3	7.6 Genetics and agriculture MS-LS1-5* (LS1.B) MS-LS3-1 MS-LS3-2 MS-LS4-5		7.7 Water chemistry and quality MS-PS1-1 MS-ESS2-2* (ESS2.C) MS-ESS3-1* (ESS3.A)		7.8 Maintaining ecosystem services MS-LS2-5 MS-ETS1-3
UCCC	Scale, proportion, and quantity					Stability and change					
8	8.1 Natural selection and antibiotics MS-LS3-1* (LS3.B) MS-LS4-4 MS-LS4-6	8.2 History of life on earth MS-LS4-1 MS-LS4-2 MS-LS4-3 MS-ESS1-4 s	8.3 Sound and light waves in communication MS-PS2-5 MS-PS4-1 MS-PS4-2 MS-PS4-3 MS-LS1-8	8.4 Solar system, force and seasons MS-ESS1-1* (ESS1 MS-ESS1-2 MS-ESS1-3 MS-PS2-4	M	8.5 Weather, climate, and Michigan agriculture MS-ESS1-1 MS-ESS2-5 MS-ESS2-6 F		8.6 ⁺ Predicting natural hazards and reducing their impacts MS-ESS3-2 MS-ESS2-3			8.7 ⁺ gating and addressing climate change MS-ESS3-4 MS-ESS3-5 W
Key: Each unit addresses a theme, as Built Environment B Human & Public Health P Food & Agriculture F Water Resources W Sustainable Ecosystems S Earth & Space Systems ES Earth & Energy Resources EE								sources ee			