



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

With NGSS Performance Expectations (PEs) and Unifying Crosscutting Concepts (UCCC)

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Grade	1 st 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 planning MS-ESS2-4 MS-PS1-4 MS-ETS1-1* (ETS1.A) _{W, B}	6.2 How living things get energy from food MS-LS1-7 MS-PS1-2 MS-PS1-5 MS-PS1-6 _F	6.3 Investigating and modeling body systems MS-LS1-1 MS-LS1-2 MS-LS1-3 _P	6.4 Protecting devices from everyday forces MS-PS2-1 MS-PS2-2 MS-ETS1-1 _B	6.5 What plants need to grow MS-LS1-5 MS-LS2-1* MS-ESS3-1* (ESS3.A) _F	6.6⁺ Managing invasive species to protect ecosystem interactions MS-LS2-1* MS-LS2-2 MS-LS2-4 MS-ETS1-2 _S	6.7 Cycling of matter and energy through food webs MS-LS1-6 MS-LS2-3 _S	
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, B}	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-ESS3-1 MS-ESS3-4* (ESS3.C) MS-PS3-3* (PS3.A,B) MS-PS1-3 _{EE, B}	7.4 Designing a device to regulate thermal energy transfer MS-PS3-3 MS-PS3-4 MS-ETS1-4 _B	7.5 How humans affect plant/animal reproduction MS-LS1-4 MS-ESS3-3 _S	7.6 Genetics and agriculture MS-LS1-5* (LS1.B) MS-LS3-1 MS-LS3-2 MS-LS4-5 _F	7.7 Water chemistry and quality MS-PS1-1 MS-ESS2-2* (ESS2.C) MS-ESS3-1* (ESS3.A) _P	7.8 Maintaining ecosystem services MS-LS2-5 MS-ETS1-3 _{W, P}
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 _P	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 _{B, P}	8.4 Solar system, forces, and seasons MS-ESS1-1* (ESS1.A) MS-ESS1-2 MS-ESS1-3 MS-PS2-4 _{ES}	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 _P	8.7⁺ Investigating and addressing climate change MS-ESS3-4 MS-ESS3-5 _{W, ES}	

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

Built Environment _B	Human & Public Health _P	Food & Agriculture _F	Water Resources _W	Sustainable Ecosystems _S	Earth & Space Systems _{ES}	Earth & Energy Resources _{EE}
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⁺Indicates units that will be available Fall 2017. For all other units, the unit topic is subject to revision based on the creative design of curriculum design teams.

*Where a specific DCI is noted in parentheses following a PE, only the DCI is primary in the package. The CCC, SEP, or other DCIs associated with the PE are not primary

Note: PEs, concepts, and practices indicated here are thoroughly addressed in the unit. Each unit also addresses supporting concepts and practices that allow for scaffolded learning over time.

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