



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 The Water Cycle MS-ESS2-4 MS-PS1-4 MS-ETS1-1* <small>W, B</small>	6.2 Investigating and Modeling Body Systems MS-LS1-1 MS-LS1-2 MS-LS1-3 MS-ETS1-3* <small>P</small>	6.3 Chemical Processes in Organism Digestion MS-LS1-7 MS-PS1-2 MS-PS1-5 MS-PS1-6* <small>P</small>	6.4 Forces and Motion MS-PS2-1 MS-PS2-2 MS-ETS1-1* <small>B</small>	6.5 What Plants Need to Grow MS-LS1-5 MS-LS2-1* <small>F</small>	6.6 Interactions within Ecosystems MS-LS2-1* MS-LS2-2 MS-LS2-4 MS-ETS1-2 <small>S</small>	6.7 Cycling of Energy and Matter Through Food Webs MS-LS1-6 MS-LS2-3 <small>F</small>
	UCCC	Energy and matter				Structure and function	
7	7.1 Creating an Energy Plan MS-PS2-3 MS-PS3-1 MS-PS3-2 MS-PS3-5 <small>EE, B</small>	7.2A & 7.2B Volcanoes & Earth's Dynamic Surface MS-ESS2-1 MS-ESS2-2 MS-ESS2-3* <small>ES, EE</small>	7.3 Moving Thermal Energy MS-PS3-3 MS-PS3-4 MS-ETS1-4 <small>B</small>	7.4 Life Cycle of Building Materials MS-PS1-3 MS-ESS3-1 MS-ESS3-4* MS-PS3-3* <small>EE, B</small>	7.5 Our Drinking Water Resources MS-PS1-1 MS-ESS3-1 MS-ESS3-3* MS-ESS3-4 <small>W, P</small>	7.6 Inheritance of Traits MS-LS3-1 MS-LS3-2 MS-LS4-5 <small>P</small>	
	UCCC	Scale, proportion, and quantity				Stability and change	
8	8.1 Adaptation and Natural Selection MS-LS3-1* MS-LS4-4 MS-LS4-6 <small>S</small>	8.2 Fossils, Rocks, and Diversity MS-LS4-1 MS-LS4-2* MS-ESS1-4 <small>ES</small>	8.3 How Sound and Light Feed Our Senses MS-PS4-1 MS-PS4-2 MS-LS1-8 <small>B</small>	8.4 Solar System Forces and Motion MS-ESS1-1* MS-ESS1-2 MS-ESS1-3 MS-PS2-4 MS-PS2-5 <small>ES</small>	8.5A & 8.5B Regional Climate & Weather MS-ESS1-1 MS-ESS2-5 MS-ESS2-6 <small>F</small>	8.6 Reducing the Impact of Natural Hazards MS-ESS3-2 MS-ESS2-3 <small>P, B</small>	8.7 Global Climate Change MS-ESS3-4 MS-ESS3-5 <small>W, ES</small>

Key: Each unit addresses a 21st century theme, as indicated by the following color/letter codes:

Built Environment <small>B</small>	Human & Public Health <small>P</small>	Food & Agriculture <small>F</small>	Water Resources <small>W</small>	Sustainable Ecosystems <small>S</small>	Earth & Space Systems <small>ES</small>	Earth & Energy Resources <small>EE</small>
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Notes: (1) Complete curriculum available Fall 2020. (2) Units subject to ongoing revision based on teacher and facilitator feedback. (3) PEs marked with (*) partially assessed in indicated units (see Unit NGSS Connections Document at mi-star.mtu.edu for more information). (4) All PEs other than those marked with (*) thoroughly addressed in units. (5) All units address additional supporting PEs to scaffold learning.

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