

Grade	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8
<b>(# of PEs)</b>	<b>Systems and system models</b>				<b>Patterns / Cause and effect</b>			
<b>6</b> <b>(18,3)</b>	<b>6.1</b>  MS-ESS2-4 MS-PS1-4 MS-ETS1-1  <i>Water Resources, Built Environment</i>	<b>6.2</b>  MS-LS1-7 MS-PS 1-2 MS-PS1-5 MS-PS1-6  <i>Food &amp; Agriculture</i>	<b>6.3</b>  MS-LS1-1 MS-LS1-2 MS-LS1-3  <i>Human/Public Health</i>	<b>6.4</b>  MS-PS2-1 MS-PS2-2  <i>Built Environment</i>	<b>6.5</b>  MS-LS1-5 MS-LS2-1 MS-ESS3-1* (ESS3.A)  <i>Food &amp; Agriculture</i>	<b>6.6</b>  MS-LS2-1* (LS2.A) MS-LS2-2 MS-LS2-4 ETS 1-2* (ETS1.B)  <i>Sustainable Ecosystems</i>	<b>6.7</b>  MS-LS1-6 MS-LS2-3  <i>Sustainable Ecosystems</i>	
	<b>Energy and matter</b>				<b>Structure and function</b>			
<b>7</b> <b>(20,7)</b>	<b>7.1</b>  MS-PS2-3 MS-PS3-1 MS-PS3-2 MS-PS3-5  <i>Energy &amp; Earth Resources, Built Environment</i>	<b>7.2</b>  MS-ESS2-1 MS-ESS2-2 MS-ESS2-3* (ESS2.B) MS-PS1-1* (PS1.A)  <i>Earth &amp; Space Systems, Energy &amp; Earth Resources</i>	<b>7.3</b>  MS-PS 1-3 MS-ESS 3-1 MS-ESS 3-4* (ESS3.C) MS-PS 3-3* (PS3.A, PS3.B)  <i>Energy &amp; Earth Resources, Built Environment</i>	<b>7.4</b>  MS-PS 3-3 MS-PS 3-4 MS-ETS1-4  <i>Built Environment</i>	<b>7.5</b>  MS-LS 1-4 MS-ESS 3-3  <i>Sustainable Ecosystems</i>	<b>7.6</b>  MS-LS1-5* (LS1.B) MS-LS3-1 MS-LS3-2 MS-LS4-5  <i>Food &amp; Agriculture</i>	<b>7.7</b>  MS-PS1-1 MS-ESS2-2* (ESS2.C) MS-ESS3-1* (ESS3.A)  <i>Human &amp; Public Health Water Resources</i>	<b>7.8</b>  MS-LS2-5 MS-ETS1-2 MS-ETS1-3  <i>Water Resources</i>
	<b>Scale, proportion, quantity</b>				<b>Stability and change</b>			
<b>8</b> <b>(21,3)</b>	<b>8.1</b>  MS-LS3-1* (LS3.B) MS-LS4-4 MS-LS4-6  <i>Human/Public Health</i>	<b>8.2</b>  MS-LS4-1 MS-LS4-2 MS-LS4-3 MS-ESS1-4  <i>Sustainable Ecosystems</i>	<b>8.3</b>  MS-PS2-5 MS-PS4-1 MS-PS4-2 MS-LS1-8  <i>Built Environment, Human/Public Health</i>	<b>8.4</b>  MS-ESS1-1* (ESS1.A) MS-ESS1-2 MS-ESS1-3 MS-PS2-4  <i>Earth &amp; Space Systems</i>	<b>8.5</b>  MS-ESS1-1 MS-ESS2-5 MS-ESS2-6  <i>Food &amp; Agriculture</i>	<b>8.6</b>  MS-ESS3-2 MS-ESS2-3 MS-PS4-3  <i>Human/Public Health, Built Environment</i>	<b>8.7</b>  MS-ESS3-4 MS-ESS3-5  <i>Water Resources, Earth &amp; Space Systems</i>	

<sup>1</sup> Mi-STAR is made possible by a grant from the Herbert H. and Grace A. Dow Foundation.

<sup>2</sup> Primary concepts are those assessed in the unit. Interdisciplinary aspects are incorporated into the units through supporting concepts that are not assessed.

\*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

\*\*NGSS is a registered trademark of Achieve. Neither Achieve nor the lead states and partners that developed the Next Generation Science Standards was involved in the production of, and does not endorse, this product.  
**Copyright, Michigan Technological University 2016, all rights reserved.**

\*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.

\*\*NGSS is a registered trademark of Achieve. Neither Achieve nor the lead states and partners that developed the Next Generation Science Standards was involved in the production of, and does not endorse, this product.  
**Copyright, Michigan Technological University 2016, all rights reserved.**