

# Science Standards Guidance



## Middle School Science

### OPTIONS IN COURSE SEQUENCES

Science standards at the middle school level are grade banded and not grade specific. For this reason, districts are encouraged to exercise their local control and map the standards to grade levels where they see fit. At the middle school level much discussion has been had regarding an integrated vs. domain specific, the intent of this document is to provide guidance considering themes and units that could scaffold in a meaningful way for both a balanced implementation and assessment system. The criteria for evaluating the suggested sequence included consideration of developmental milestones / rigor, interconnectedness of concepts and teachers of rural districts who could be teaching all three grade levels consecutively. Evaluating this criteria meant that a consistency of domains in all three grade levels were considered and alignment was intentionally attempted when identifying times of year for concepts to be taught.

### Quick Links

- [Sixth Grade](#)
- [Seventh Grade](#)
- [Eighth Grade](#)

## Sixth Grade

<p><u>ATOMS, MOLECULES &amp; CHEMICAL REACTIONS</u></p> <p>MS-PS1-1 MS-PS1-2 MS-PS1-5 MS-PS1-3</p> <p><u>THERMAL ENERGY</u></p> <p>MS-PS1-4 MS-PS1-6 MS-PS3-3 MS-PS3-4 MS-PS3-5</p> <p><u>IMPACT OF RESOURCE AVAILABILITY ON ORGANISMS</u></p> <p>MS-LS2-1 MS-LS2-2</p>	<p><u>NON-CONTACT FORCES AND FIELDS</u></p> <p>MS-PS2-3 MS-PS2-4 MS-PS2-5 MS-PS3-2</p> <p><u>SCALE, GRAVITY, EARTH SUN AND MOON</u></p> <p>MS-ESS1-1 MS-ESS1-2 MS-ESS1-3</p>
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## Seventh Grade

<p><u>CHEMICAL PROCESSES IN ECOSYSTEMS &amp; ORGANISMS</u></p> <p>MS-LS1-6 MS-LS1-7 MS-LS2-3</p> <p><u>CHANGES IN EARTH'S SURFACES</u></p> <p>MS-ESS2-1 MS-ESS2-2 MS-ESS3-2 MS-ESS2-3 MS-ESS2-4 MS-ESS3-1 MS-ESS1-4</p>	<p><u>LIFE'S ESSENTIAL STRUCTURES &amp; FUNCTIONS</u></p> <p>MS-LS1-1 MS-LS1-2 MS-LS1-3 MS-LS1-8</p> <p><u>GROWTH &amp; REPRODUCTION OF ORGANISMS</u></p> <p>MS-LS3-1 MS-LS3-2 MS-LS1-5 MS-LS1-4</p>
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## Eighth Grade

<p><u>FORCE &amp; MOTION</u></p> <p>MS-PS2-1 MS-PS2-2 MS-PS3-1</p> <p><u>WAVES</u></p> <p>MS-PS4-1 MS-PS4-2 MS-PS4-3</p> <p><u>WEATHER &amp; CLIMATE</u></p> <p>MS-ESS2-5 MS-ESS2-6 MS-ESS3-5</p>	<p><u>HUMAN IMPACT ON ECOSYSTEMS</u></p> <p>MS-ESS3-3 MS-ESS3-4 MS-LS2-4 MS-LS2-5</p> <p><u>CHANGE IN POPULATIONS OVER TIME</u></p> <p>MS-LS4-4 MS-LS4-5 MS-LS4-6 MS-LS4-1 MS-LS4-2 MS-LS4-3</p>
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