

Curriculum Map – Physical Science
Integrating NGSS

Quarter 1		Quarter 2
<p style="text-align: center;"><u>Scientific Skills</u> <i>6 weeks</i></p> <p style="text-align: center;">Discipline Proficiencies</p> <ol style="list-style-type: none"> By the end of middle school, the CMS students will be able to construct, interpret, and analyze models to build understanding and test ideas. By the end of middle school, the CMS students will effectively obtain and communicate scientifically valid evidence in a number of ways (qualitatively, ie. written, verbally; quantitatively ie. graphically, mathematically) to support a claim. 	<p style="text-align: center;"><u>Energy Transfer</u> <i>5 weeks</i></p> <p style="text-align: center;">MS-LS3-3 MS-LS3-4 MS-LS3-5 MS-ETS 1-3 MS- ETS 1-4</p> <p style="text-align: center;">Discipline Proficiencies</p> <ol style="list-style-type: none"> By the end of middle school, the CMS students will be able to analyze information from several sources (written, graphical, verbal, mathematical) to draw scientifically valid conclusions. By the end of middle school, the CMS students will be able to ask questions in order to design and carry out scientific investigations. By the end of middle school, the CMS students will identify problems in order to engineer (design), implement, and refine solutions. 	<p style="text-align: center;"><u>Forces and Motion</u> <i>11 weeks</i></p> <p style="text-align: center;">MS-PS 2-1 MS-PS 2-2 MS-PS 3-1 MS-PS 3-2 MS-PS 3-5</p> <p style="text-align: center;">Discipline Proficiencies</p> <ol style="list-style-type: none"> By the end of middle school, the CMS students will be able to construct, interpret, and analyze models to build understanding and test ideas. By the end of middle school, the CMS students will effectively obtain and communicate scientifically valid evidence in a number of ways (qualitatively, ie. written, verbally; quantitatively ie. graphically, mathematically) to support a claim. By the end of middle school, the CMS students will be able to ask questions in order to design and carry out scientific investigations. By the end of middle school, the CMS students will identify problems in order to engineer (design), implement, and refine solutions.

Quarter 3

Matter and Its Interactions

11 weeks

MS-PS1-1
MS-PS1-2
MS-PS1-3
MS-PS1-4
MS-PS1-5
MS-PS1-6

Discipline Proficiencies

1. By the end of middle school, the CMS students will be able to construct, interpret, and analyze models to build understanding and test ideas.
3. By the end of middle school, the CMS students will effectively obtain and communicate scientifically valid evidence in a number of ways (qualitatively, ie. written, verbally; quantitatively ie. graphically, mathematically) to support a claim.
5. By the end of middle school, the CMS students will identify problems in order to engineer (design), implement, and refine solutions.

Quarter 4

Waves and Their Applications in Technology for Information Transfer

4 weeks

MS-PS4-1
MS-PS4-2
MS-PS4-3

Discipline Proficiencies

1. By the end of middle school, the CMS students will be able to construct, interpret, and analyze models to build understanding and test ideas.

Electric and Magnetic Forces

3 weeks

MS-LS 2-3
MS-LS 2-5
MS-LS 3-2
MS-ETS1-2

Discipline Proficiencies

2. By the end of middle school, the CMS students will be able to analyze information from several sources (written, graphical, verbal, mathematical) to draw scientifically valid conclusions.