

Curriculum Night Schedule

- 1st 6:00 6:12
- 2nd 6:15 6:25
- 3rd 6:28 6:38
- 4th 6:41 6:51
- 5th 6:54 7:04
- 6th 7:07 7:17
 7th 7:20 7:30

"Knowing how to think empowers you far beyond those who know what to think"

-Neil deGrasse Tyson



6th Grade Earth Science Curriculum

Unit 1 - Solar System and Beyond
Unit 2 - Earth-Moon-Sun
Unit 3 - Earth's Changing Landscape
Unit 4 - Water in Earth's Processes
Unit 5 - Climate and Weather



What Will I Learn and How Will I Show I Learned it?

Learning Targets- What Will I Learn?

- Formation of the Universe/Big Bong Theory and understand the difference between a theory and law
- 🗋 Geocentric Model vs Helocentric Model
- Earth's position in the Universe
- C Exploit the similarities and differences between the planets
- C Explain the similarities and dfferences of comets, asteroids, and meteoroids
- Inderstand what inertia and gravity are and how they affect the motion of objects in our solar system.

Now have theories of the formation and structure of the universe changed over time? Now is our volar system positioned in the Miky Way Bakey and the universe? Now does the Earth compare to the other planets in our solar system? Wat is the difference between a comet, mateer, and asteroid?

Success Criteria - How Will I show I Have Learned it?

- Develop a model to explain Earth's position in the Miky Way (explanation of Big Bong Theory).
- Develop a model to compare and contrast the Geocentric and Helocentric models
- When given a set of data, students will be able to compare and contrast the planets.
- When given characteristics of space algorits, students will be able to identify comets, ovtensids, and meteoroids.
- Use a model to explain the interaction of gravity and inertia that governs the motion of objects in the solar system.

How is Science Education Changing?		
Traditional	21st Century	
Start with Chapter One	Start with a Phenomenon	
Teacher Asks Questions	Students Ask Questions	
Cookie Cutter Labs	Student-Designed Labs	
Lectures	Gathering Evidence	
Memorizing Facts	Applying knowledge	
Scientific Method	Science Practices/ Design Process	
Unit Tests	Problem-Based Assessments	
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3 Dimensional Learning (3D)

Science and Engineering Practices

What students will be <u>doing</u>.

- Asking Questions and Defining Problems
- Developing and Using Models
- Planning and Carrying Out Investigations
- Analyzing and Interpreting Data
- Using Mathematics and Computational Thinking
- Constructing Explanations and Designing Solutions
- Engaging in Argument from Evidence

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Disciplinary Core Ideas

This is the <u>content</u> only.

For example...

Structure and Properties of Matter:

- Substances are made from different types of atoms, which combine with one another in various ways.
- Atoms form molecules that range in size from two to thousands of atoms.

Crosscutting Concepts

Intertwined <u>themes</u>

- Patterns
- Cause & Effect
- Energy & Matter
- Scale, Proportion, and Quantity
- Systems and System Models
- Structure and Function
- Stability & Change

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Student Expectations

- 1. Be Prepared for Class.
- 2. Be Respectful.
- 3. Participate.
- 4. Reach out for help.
- 5. Do Your Best Work!



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- Weekly Slideshows
- Classwork and homework assignments
- Test dates
- Project information and due dates
- Resources and links

Parent Portal

- Check here for grades, missing assignments, etc.
- If you don't have one, check with Mrs. Menichino in the front office.

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	Take me to the Farent Login screen Take me to Password Self Service	If you have been assigned a Campus Portal Activation Key, click here If you do not have an Activation Key, click here	Ć
		Tell me more!	
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