

Mr. Montanari's 6th Grade Science

6th Grade Science Curriculum:

- **Physical Sciences**
 - Energy
 - Food Energy
 - Energy Pyramid
- **Life Sciences**
 - Plant and Animal Cells
 - Differences and Similarities
 - From Molecules to Organisms
 - Plant Growth
 - Photosynthesis
 - Cellular Respiration
 - Ecosystem Dynamics
 - Food Webs
 - Nitrogen Cycle
 - Ecosystems
 - Interdependent Relationships in Ecosystems
 - Producers, Composers, and Decomposers
 - Populations, Communities, Ecosystems, and Biomes
 - Biodiversity and Humans
 - Zoology
 - Life Cycle of a Salmon
 - Endangered Animal Project
- **Robotics**
 - LEGO
 - EV3

In addition to the above topics, Lab Safety, Study Skills, Team Building, Inquiry/Method, Lab Report Writing and Observation/Inference will be included.

Grading:

As students, it is important to understand that you earn your grade. Your grade reflects what you know and are able to do, as demonstrated through the assignments you complete. Your grade is determined by the percentage of points you earn out of the total number of points possible. D and F grades are not acceptable and more effort must be made to gain the knowledge and skills targeted by the assignment.

Successful and Safe in Science Labs:

Performing science labs is a privilege that requires responsible behavior. Students demonstrating irresponsible behavior may be given alternative learning activities during labs until the behavior is corrected. Additionally, all students must take, pass, and earn 100% on the Lab Safety Exam. Any behavior deemed unsafe may require a parent meeting before you are allowed to participate in labs.

Basic Expectations:

As with all classes, success in my class requires that students be prompt, prepared, productive, and polite. In addition, you should be proud of the work you do.

- *Prompt* – Students are expected to arrive to class on time and to be seated with materials out and ready to work when class begins.
- *Prepared* – Students are expected to have all necessary materials when they arrive to class.
- *Polite* – Students are expected to be respectful of other students, teachers and adult assistants, and of the property of others. Students are expected to listen to and respect the ideas of others and to communicate in a tone and manner that demonstrates mutual respect.
- *Productive* – Students are expected to be on-task and productive during class. They should make excellent use of class time. Students should be mindful of the learning environment and not disturb others or be a disruptive influence.
- *Proud* – Students are expected to do quality work. Assignments should be complete and neatly executed. Student work should reflect time and effort in what they have produced.

Holy Rosary Expectations:

In addition to the Basic Expectations outlined above, each student is expected to follow and demonstrate the **Behavior Guidelines for the 6th, 7th, and 8th grades of Holy Rosary School** that each student received and reviewed on the first day of school. As a reminder, the areas covered include: *Classroom Guidelines*, *Keys for Success*, *Standards of Acceptability* and *Attendance Policies*. I highly recommend that you review these guidelines.

While those guidelines are directed at the Upper Grades, Holy Rosary School follows the **Positive Catholic School Environment** guidelines of *Respectful*, *Kind*, *Responsible*, and *Safe*.

As leaders of our school, please be sure you are following these guidelines as positive role-models to our younger students.

If you have any questions or concerns, please do not hesitate to e-mail me.

Please be sure to review my electronic Planbook, accessed through the HR Website:

www.hrsedmonds.org > Classrooms > 6th-8th Science > Mr. Montanari's Planbook

Mr. Montanari

mikem@holyrosaryedmonds.org

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6th Grade Science
- Curriculum Map

	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
	Classroom Rules & Procedures	Observation & Inference	LEGO EV3 Robotics	LEGO EV3 Robotics Challenge	Limiting Factor Lab	To Dam or Not to Dam Activity	Ecosystem Facelift	Ecological Footprint Activity	Food Chain - Food Web - Biome	Anatomy of a Cell
	Following Directions	Candle Burning Lab			Introduction to Environmental Science	Environmental Organization	Good Buddies Activity	Ecosystem Nutrition	Career Critters Activity	Plant & Animal Cells
	Lab Safety	Lab Report Writing			Life Cycle of a Salmon	Symbiotic Relationships	Features of Populations	Endangered Species Project	Endangered Species Project Presentations	
	Team Building - Cup Challenge	LEGO EV3 Robotics			ATUs, pH, Ammonia Testing	Product Lifecycles	Predator/Prey - Weasel Activity			
	Scientific Method				Salmon and People		Watch Your Step Activity			
					Where have all the Salmon gone? Activity					

Mr. Montanari's 7th Grade Science

7th Grade Science Curriculum:

- **Physical Sciences**
 - Matter and Its Interactions
 - Atomic Theory
 - Solid-Liquid-Gas
 - Transformation of Matter
 - Properties of Matter
 - Chemical Reactions
 - Buoyancy and Density
 - Solutions, Solutes, and Solvents
 - Forces and Interactions
 - Forces and Motion
 - Electromagnetic Forces
 - Gravitational Forces
 - Long-Term Rube Goldberg Project
- **Earth and Space Sciences**
 - Earth's Systems
 - Weather & Climate
 - Earth and Human Activity
 - Human Impacts on Earth Systems
 - Climate and Climate Change
- **Robotics**
 - LEGO
 - EV3

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Mr. Montanari's 8th Grade Science

8th Grade Science Curriculum:

- **Life Sciences**
 - Heredity
 - Traits
- **Earth and Space Sciences**
 - Earth's Systems
 - Tectonic Processes
 - Earthquakes
 - Volcanoes
 - Plate Tectonics
 - Geologic Concepts
 - Layers of the Earth
 - Geologic Time
 - Introduction to Oceanography
 - Astronomy
 - The Life of a Star
 - Constellations
 - Earth and Human Activity
 - Human Impacts on Earth Systems
 - Carbon Cycle
 - Global Climate Change
- **Robotics**
 - LEGO
 - EV3

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8th Grade Trip:

Details to Follow.

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8th Grade Science Curriculum Map

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Classroom Rules & Procedures	Astronomy vs. Astrology	HR Diagram	A Star's Life	Constellation Project	Genetics & Heredity	Plate Tectonics	Earthquakes Everywhere Activity	LEGO EV3 Robotics	8th Grade Trip	
Lab Safety	Constellations	Sun's Period of Rotation	Cosmic Calendar	Constellation Project Presentations	Human Traits	Gondwanaland Activity	Seismic Waves			
Team Building - Pipeline	Star Finders	Analysis and Interpretation of Data			Monster Genetics Project	Convection Current Lab	Wave Demonstration			
Scientific Method	Precession					Sea-Floor Spreading	Locating the Epicenter Activity			
Orea Double Stuff Lab	Sun Signs					Rock Cycle				
Lab Report Writing						Hawaiian Islands Activity				