

8th Grade Physical Science, Jina Sloan, Instructor  
2017-2018

Per Archdiocesan Curriculum, prior to entering high school students will be able to:

- design and conduct a scientific investigation.
- use appropriate tools and technology to accurately conduct tests, collect and organize data and display results in charts, tables, and graphs.
- analyze the relationship between predictions, evidence and explanations as they occur in the science classroom and beyond.
- apply math in scientific investigations.
- analyze social, moral and ethical issues based upon an understanding of scientific principles and in the context of Catholic Social Teaching.
- apply a variety of grade appropriate scientific vocabulary.
- use models and representation to explain scientific phenomena.

Additionally, 8<sup>th</sup> grade students will be able to:

- predict the properties and changes in matter.
- manipulate matter using appropriate tools.
- analyze, with scaffolding, the structure of atoms and the organization of the periodic table.
- describe elemental interactions within chemical reactions.
- explain basic properties and behaviors of waves.
- apply concepts regarding the flow of energy to real-life situations.
- apply the concept of one dimensional motion to real world scenarios.
- apply Newton's three laws of motion to real world scenarios.
- analyze with scaffolding, the relationship between work and simple machines.

Our adopted text is Interactive Science by Pearson, Copyright date 2011. This text is unique in that it is truly interactive. Each student receives a student edition for each of the major units that they complete as we move forward. This gives the student the opportunity to write directly into their textbook, which is a time saver as well as an opportunity to puzzle through big ideas within the text.

We have online access to the textbook through the website: [pearsonrealize.com](http://pearsonrealize.com) Students will be provided their username and password and will write it on the top margin of their science handbook (the red ISN)

In the 8<sup>th</sup> grade our textbooks will include: Science and Technology, Forces and Energy, Introduction to Chemistry and Sound and Light

I follow the Middle School Grading Scale as found on the Student/Parent Handbook page 10.

The grades in my class are broken down as follows:

50%-Tests and Projects

25%-Classwork and Homework

25%-ISN and Labs

The middle school policy toward late work is that it is not accepted unless it is within the absence policy. Therefore, students will receive a zero on assigned work not turned in within the deadline given. (Also found on page 10 of the Parent/Student Handbook)

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