

## Junior High Science

### Overview

Science concepts will be introduced or reviewed by studying, experiencing, and analyzing. Students will read texts, complete worksheets, memorize vocabulary, present stories/news/developments related to science, perform experiments, take quizzes and tests, and do a science fair project.

### Grading

All assignments will be graded. Grades will be computed accordingly: tests – 50%, quizzes – 20%, homework – 20%, and class work – 10%. Assignments not submitted on time or done so not properly completed will be graded as a “0”. Excused absences or other reasonable situations will be treated as exceptions to this rule. In these cases, the assignment(s) will be due in relation to the amount of time missed.

### Science Fair

Junior High Students **must** complete a Science Fair Project for Immaculate Conception School. Detailed instruction, guidance, and formatting will be provided in class starting in September. **DO NOT** begin the project without teacher approval first. The **8th grade’s science fair projects are due Tuesday, January 17**, and the **7th grade projects are to be submitted on Thursday, January 19**. Class time will be given for instruction and construction of the Research Paper part of this project after the Christmas Break. Therefore, it is imperative that the data be available by January 5, 2017. **Please note:** Though instruction, guidance, and assistance will be offered at school, most of this project will be done off-site.

Junior High Students are also invited to enter their projects in the **Ozark Science and Engineering Fair (OSEF) at Missouri State University**. This is voluntary and open to all IC 7<sup>th</sup> and 8<sup>th</sup> grade students. If students successfully follow the format and instruction on their projects done in January, they are prepared for the OSEF. Prizes and Awards are presented to outstanding projects. The dates are April 4, 5, and 6, 2017. Science Fair Packets will be distributed in September. Access to the Ozark Science and Engineering Fair forms and the Student Handbook can be reached at: <http://www.societyforscience.org/isef/document> The general website is: [www.k12science.missouristate.edu/OSEF/enter\\_the\\_fair!](http://www.k12science.missouristate.edu/OSEF/enter_the_fair!)

**Please DO NOT begin the project until you secure teacher’s approval.**

### Science Olympiad

Science Olympiad will be available for 6<sup>th</sup>, 7<sup>th</sup>, and 8<sup>th</sup> graders this year. Typically, the Regional Competition is held at Missouri State University in February. Science Olympians **may** be able to use their Science Olympiad project as their Science Fair Project if they meet both criteria and with teacher approval. Information will be disseminated in September.

## **Texts**

The publisher calls the student books “interactive texts”. This means that students can write in them. Please only mark the pages being covered in class and assigned because these books are to be returned if students withdraw before the end of the year so that they will be available for new students.

To gain on-line access to the text and its resources, go to [www.thinkcentral.com](http://www.thinkcentral.com). Click the **Science and Health** icon. Click on the **Fusion Science** icon. State: Select **Missouri**; School District: **Catholic School**; School: **Immaculate Conception in Springfield 65804**; User name: Student’s **FirstnameLastname**; Password: **password**. (Student names reflect their listed names as registered on enrollment forms and may not reflect their nicknames or preferred names).

## 7<sup>th</sup> grade

### **Life Science Module A: Cells and Heredity**

Unit 1 Cells  
Unit 2 Reproduction and Heredity

### **Life Science Module B: Diversity of Living Things**

Unit 1 – Life over Time  
Unit 2 – Earth’s Organisms

### **Life Science Module C: Human Body**

Unit 1 – Human Body Systems  
Unit 2 – Human Health

## 8<sup>th</sup> grade

### **Physical Science Module H: Matter and Energy**

Unit 1 – Matter  
Unit 2 – Energy  
Unit 3 – Atoms and the Periodic Table  
Unit 4 – Interactions of Matter  
Unit 5 – Solutions, Acids, and Bases

### **Physical Science Module I: Motion, Forces, and Energy**

Unit 1 – Motion and Forces  
Unit 2 – Work, Energy, and Machines  
Unit 3 – Electricity and Magnetism

### **Physical Science: Module J Sound and Light**

Unit 1 – Introduction to Waves  
Unit 2 – Sound  
Unit 3 - Light

Most commonly used additional free sources that supplement, complement, and enhance lessons include, [www.khanacademy.org](http://www.khanacademy.org), [www.ted.com](http://www.ted.com), [www.sciencedaily.com](http://www.sciencedaily.com), [www.sciencebuddies.org](http://www.sciencebuddies.org), and [www.bozemanscience.org](http://www.bozemanscience.org) and YouTube videos that enhance or complement a lesson.