

Sacred Heart School

Course Syllabus

Class Subject: Grade 7 - Life Science

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Sacred Heart School: 860-445-0611

Course Description: In Life Science, students will learn about Cells, Organisms, the Human Body, Natural Systems, and Environmental Issues. Using a child's curiosity, opportunities are created to investigate, hypothesize, test ideas, draw conclusions, and engage in hands on activities. Science develops skills in gathering, categorizing, quantifying, and interpreting data. Students will be able to make discoveries about themselves and their environment through science.

General Course Objectives:

Cells:

Students will:

- Identify that cells are the basic units of living organisms
- Understand the structures, similarities and differences of a plant cell and an animal cell
- Identify processes that are required for cell life (food, growth, movement, reproduction, respiration, etc.)

Organisms:

Students will:

- Understand multi-cellular organisms are organized into tissues, organs, and systems
- Identify the five Kingdoms and characteristics of each
- Understand that the five Kingdoms are classified further into Phylum, Class, Order, Family, Genus and Specie
- Identify external and internal characteristics that enable organisms to live, move, and eat
- Understand the difference between asexual and sexual reproduction
- Identify the major parts of a seed
- Understand life cycle of common plants

Human Body:

Students will:

- Understand the systems of the human body
- Identify characteristics for each system in the body
- Identify the bones in the skeletal system

Natural Systems:

Students will:

- Know that a living thing is the product of its heredity and environment
- Identify the relationship between producers and consumers in a community
- Identify ecosystems, food chains, and decay

Environmental Issues:

Students will:

- Recognize engendered species and human factors that have contributed
- Understand activities that damage land use and threaten water quality

Instructional Strategies: Include but are not limited to the following; Lecture, Discussions/Questioning, Viewing/Listening/Answering, Problem Finding/Solving, Laboratory, Data Collection, Discovery, Collaborative Learning Groups, Independent Learning, Computer Applications, Videos

Assessments: Class Discussions, Teacher Observation, Class Work, Homework, Tests/Quizzes, Projects/Oral Presentations, Journal Writing Assignments, Laboratory Performance, Laboratory Reports

Materials: Prentice Hall Science Explorer (five books): From Bacteria to Plants, Animals, Cells and Heredity, Human Biology and Health, and Environmental Science, Laboratory activity materials, Supplemental Materials, Videos, Teacher Generated Materials, Interactive white board