

Curriculum Syllabus

Curriculum Area: Science

Course Title: 7th Grade Science

Grade Level: 7

Course Description:

Students will become more aware of the scientific world around them by learning concepts in the areas of life, physical and earth sciences. Students are provided this information through a variety of learning experiences including labs, cooperative learning and projects. Students will master and use scientific process skills and the scientific method to solve problems and complete these learning experiences.

Course Expectations / goals / benchmarks / objectives:

Students will develop knowledge and understanding of these areas:

1. Organization of living things
2. Parts and functions of plant and animal cells
3. Basic principles of genetics and heredity
4. Composition and characteristics of the atmosphere
5. Patterns of changing weather and measuring weather patterns
6. Effects and causes of water and land pollution
7. Motion and it's properties – Newton's Laws
8. Various forms of energy
9. Energy conversion from one form to another
10. Energy sources (renewable vs. nonrenewable)
11. Energy cycles in nature (water cycle, CO₂ cycle, N₂ cycle)
12. Ecosystems and the hydrosphere

Course Textbooks / Materials:

1. Cell Structure and Function
2. Air Around You
3. Ecology
4. Motion, Forces and Energy

Major Course Assignments / Requirements:

1. Weekly homework and reinforcement worksheets
2. Lab experiences
3. Tests and quizzes

Grading and Assessments (tests and quizzes):

Grades are based on a total point scale with tests carrying a greater point value than homework. Each assignment has different weight based on content.

Homework:

Workload is comprised mainly of reinforcement work such as worksheets and book questions. Most homework is started in class and may carry over to home if needed. Homework most likely will not exceed three nights a week.

Other Important Information:

Other relevant projects may be added to the curriculum based on a teacher's discretion and available time.