
Science

Syllabus: Grade 7

Description:

Seventh grade science class focuses mainly on life science, with additional discussions of scientific inquiry and energy. The students will review the nature of science and how to design an effective experiment.

Science Standards:

Standard 1: Science Practices Standard

2: Life Science

Standard 3: Earth and Space Science Standard

4: Physical Science

Science Objectives:

In seventh grade science class, students should be able to create experiments to learn about the natural environment, weather, etc. They should learn to grow simple seeds and spouts, and learn about life spans of animals. They will learn and gain a deeper understanding of science instead of simple memorizing pieces of information, students should learn to gather data, go through the scientific method and then use this information as they write reports and ask questions.

Science Resources & Materials:

Teacher's Resources: Science Plus level green (T. Ed) Student's Resources: Science Plus level red (St. Text) Water for Life book From Ridge to Reef Booklet Digital Resources

Class Rules

1. Arrive on time, prepared, and ready to learn
2. Respect yourself and others
3. Make friends and be thoughtful
4. Take turns speaking and listening
5. Say Please and Thank you
6. Try your best!

Computation of Letter Grade:

90%-100%	-----	A
80%-89%	-----	B
70%-79%	-----	C
65%-69%	-----	D
0%-64%	-----	F

Effort and Behavior & Activity

- 1 - Outstanding
- 2 - Satisfactory
- 3 - Needs Improvement
- 4- Unsatisfactory

Methods of Evaluation

Quarterly grade for Grade 1 to 8 is based on:

A. 85% = Class Average

* Class Average = 70% Test + 30% Other
Components such as quizzes, group works, classwork, homework, self-assessments, experiments/demonstrations/research/projec

B. 15% = Quarter Exam

What do we study in Science?

Standards	Grade Seven
1	<p>Science Practices:</p> <ul style="list-style-type: none"> The ways that scientists ask questions about the natural world, get and analyze data, develop explanations, and communicate their evidence-based scientific knowledge.
2	<p>Life Science:</p> <ul style="list-style-type: none"> Research and communicate examples from microbiology that illustrate the nature of science and technology, emphasizing connections to health and careers. Compare the characteristics of different kinds of microorganisms, and describe services that they provide for ecosystems and people. Explain how microorganisms can cause disease, and explain technologies and living practices that can help people to be healthy.
3	<p>Earth and Space Science:</p> <ul style="list-style-type: none"> Make a model of the carbon cycle to show its reservoirs and flows, and compare the preindustrial and current flows and reservoirs. Model the flows of energy into, within and out of the Earth system, and explain the climate effects of increased carbon dioxide in the atmosphere. Communicate examples from the debate about continental drift that illustrate the nature of science and technology, emphasizing connections with careers. Given images of landscapes, infer the roles of weathering and erosion, and explain in cases of erosion the evidence for erosion and its probable cause.