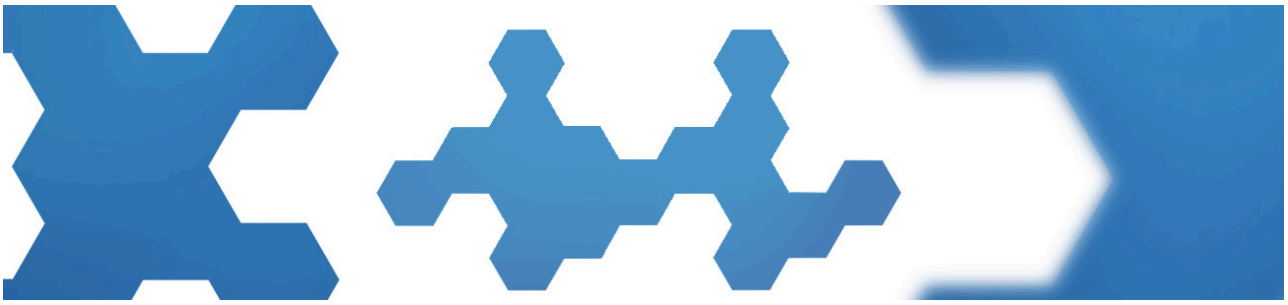

Syllabus

Contents

What You Should Already Know

As a prerequisite for eighth-grade science, you should have taken a seventh-grade science course or studied the seventh-grade curriculum. Also, there are a number of mathematical formulas throughout this course. A background in basic algebra (equations, formulas, and how to rearrange formulas) will be quite helpful in understanding several aspects of this course.

Course Learning Outcomes

There are four main areas that you should master during this course:

1. Describe the organization of the world around us, first on an atomic level, and then on a macroscopic, familiar level (from atoms to objects we use daily).
2. Explain and provide several examples of different types of energy and discuss how energy changes from one form to another.
3. Identify and utilize simple machines in everyday life.
4. Define motion and the various items that affect motion.

Course Materials

- You will not need a textbook to complete this course. All of the information you need is in the lessons.
- If you have access to a physical science or life science (primarily physical science) textbook, you should consult it and try some

practice problems. The more practice you get, the more logical and intuitive the information in this course will become to you.
- There are mathematical equations that you will probably need a calculator to solve. The math is simple enough that you should be able to solve it in a few computations.

Additional Resources

There is a course discussion board at the end of the course. The discussion board is designed for students to connect, discuss course-related matters, and share ideas with each other.

Assignments

There are Self Check questions throughout each unit that are good practice questions, and they are not graded. The unit and review quizzes are graded for credit. You will want to go back and study the Self Check questions before you take the unit and review quizzes.

The computer-graded unit and review quizzes are open book and open notes. However, if you use the lesson material or your notes to answer any questions in the unit and review quizzes, you should review those concepts before you take the final exam.

Exams

This course has a final exam with 60 multiple-choice questions. It is closed-book and closed-notes exam.

Grading

Your final grade for this course will be determined by the following percentages:

Assignment	% of Final Grade
Unit 1 (Unit Quiz)	10%

Assignment	% of Final Grade
Unit 2 (Unit Quiz)	10%
Unit 3 (Unit Quiz)	10%
Review Quiz 1	5%
Unit 4 (Unit Quiz)	10%
Unit 5 (Unit Quiz)	10%
Unit 6 (Unit Quiz)	10%
Review Quiz 2	5%
Final Exam	30%

Here is the grading scale:

A	100–93	**C**	75–73
A-	92–90	**C-**	72–70
B+	89–86	**D+**	69–66
B	85–83	**D**	65–63
B-	82–80	**D-**	62–60
C+	79–76	**E (FAIL)**	59 or below