

Eighth Grade Science Honors Syllabus
Teacher: Mrs. Thompson

Room Number: 310

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Textbook: SC STEMscopes- *textbook to keep at home is available upon request*

Materials Needed: Three-ring binder, 6 dividers for binder, headphones, pencils, colored pencils, glue stick, index cards, lined paper, graph paper

Overview:

The Eighth-Grade Science course is rigorous and requires students to conduct in depth laboratory experiments including mathematical calculations, graphing, and the mastery of qualitative and quantitative research methods. As students conduct each lab and activity, they will be held accountable for showing a higher level of thinking as they make observations, record data, analyze their results, and come to conclusions. All Honors Eighth-Grade students are required to complete a science fair project for the school science fair.

Content and Instructional Goals:

Motion and Stability: Forces and Interactions

Demonstrate an understanding of the effects of contact and non-contact forces on the motion and stability of an object.

Waves and Their Technologies for Information Transfer

Demonstrate an understanding of the properties and the behavior related to energy and transmitting information.

From Molecules to Organisms: Structures and Processes

Students explain how genetic factors, the environment, and an organism's behaviors and structures influence its growth, development, and reproduction.

Heredity: Inheritance and Variation of Traits

Students describe how genetic changes can affect the structure and function of an organism.

Biological Evolution: Unity and Diversity

Students describe how natural selection leads to certain dominant traits in a population and the suppression of others.

Earth's Place in the Universe

Students describe Earth's place in relation to the solar system, Milky Way galaxy and universe, and evaluate information on scale properties of objects.

Grading (Nine Weeks Average):

Major (Tests/Projects)	50%
Minor (Labs, Activities, Quizzes)	30%
Practice (Classwork, Homework)	<u>20%</u>
	100%

Grading Scale:

A	90-100
B	80-89
C	70-79
D	60-69
F	Below 60

***The final Science Fair Project will be entered as a major test grade.

Semester Average:

Nine Weeks 40%
Nine Weeks 40%
Semester Exam 20%

Year Average:

1st Semester 50%
2nd Semester 50%

Student Responsibilities:

Always have Chromebook, books, notebooks, homework, and pencils ready at the beginning of the class period. It is expected that all classwork and homework will be completed. Students are to take notes as given, including any examples. Students should be aware of upcoming quiz and test dates. Check Google Classroom and school email on a daily basis.

Homework:

Homework assignments, major projects, and test dates will be posted on Google Classroom and at <https://www.lexrich5.org/Page/10941>. Assignments should be ready to be checked at the beginning of class or submitted through Google Classroom.

Make-Up Work and Discipline:

All students are expected to behave properly in the science lab and follow the guidelines for attendance and discipline as they are described in the Behavior Code Book. Disciplinary actions will be followed as outlined in the Code Book. If a student is absent, he or she is responsible for requesting all make-up work and scheduling an afternoon to come in and complete the missed lab, activity, or test.

Safety:

Please note, due to students having severe allergies, food is not allowed in the classroom.

Tutoring:

I will offer tutoring after school by request. Please let me know a day in advance if you would like to stay.

Family-friendly Guide to SC Academic Standards

<http://www.scfriendlystandards.org/>

Please complete this [form](#) to acknowledge you have received and read the science syllabus. You can access an electronic copy of the syllabus on my website. <https://www.lexrich5.org/Page/10941>

**It's going to be a great year!
Go FOXES!**

