

Miss Brenda K. Brown - 7th Science
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<https://classroom.google.com/>
<https://www.hmhco.com/one/login/>



7th Grade Science Syllabus:

1st QTR

S.T.E.M. Focus is on understanding scientific, technological, engineering, and mathematical practices that real scientists and engineers use in everyday life. Students will make connections between scientific theories and natural phenomena by conducting experiments, designing solutions to solve real world problems, integrating technology, working collaboratively, and communicating explanations. Understanding the novel coronavirus and its impact on society.

2nd QTR

Physical Properties, Chemical Reactions, and Information Processing:

Students will learn how chemical and physical properties of matter create natural and synthetic materials that are used every day. They will develop models that will predict how matter behaves during chemical processes. Learning how the brain works, it's neurological connections and dynamic processes, will be another focus of this unit.

3rd QTR

Earth & Space Systems: In this unit students will understand how heat transfer from the sun drives weather, ocean currents and climate on Earth, specifically how weather conditions develop in the Great Lakes Region. Students will describe different kinds of phenomena between the movement of the Earth and Sun. They will design models to identify how our galaxy and solar system exist in an extremely large space with many different types of objects that move in identifiable patterns.

4th QTR

Human Impact on the Environment & Processes of Living Things:

Students will analyze how human activities impact weather, climate, organisms, and the environment they live in. They will also explore evidence that all living things are made up of cells and that their structure and function are very similar. Lastly, we will examine how the process of photosynthesis cycles matter and the flow of energy creating all life on Earth.

Assessments: Student grades are dependent upon the effort and quality of the work they complete in class every day. Daily assignments include reading, writing, vocabulary, drawing and labeling, scientific activities, investigations, experiments, projects, research, technology, collaborating within teams and taking tests. Weekly class assignments will be posted on Google Classroom.

1) Students will need a 3-subject spiral bound notebook to document their thoughts, hypotheses and conclusions on various investigations and experiments into daily phenomena.

2) Interactive activities provided on the Internet will be used to conduct research, write essays, and learn scientific concepts. These activities will be documented on packets provided in Google Classroom, or, into the student's science notebook. Our class text is accessible on-line at the website listed on the front page.

3) A diverse selection of projects, experiments and tests will be given covering the scientific terms and concepts that we are studying. Students will have several opportunities in class to review all the concepts to be assessed.

4) Students are given a variety of differentiated activities where there will be considerable flexibility and choice allowing for maximum interest and participation.

5) Different types of enrichment assignments are available ALL School Year. Students can complete additional work to improve their grade. Acceptable enrichment assignments are documented on the next page and will be modeled by Miss Brown so that students know exactly what they must do to earn additional points.

6) Assignments, projects, or homework must be completed on time to receive full credit. Credit earned will be lowered one grade for each day it is late. **All assignments will be accepted up to (1) week after they are due.**

The district grading scale is:

A+	100
A	99 - 93
A-	92 - 90
B+	89 - 87
B	86 - 83
B-	82 - 80
C+	79 - 77
C	76 - 73
C-	72 - 70
D+	69 - 67
D	66 - 63
D-	62 - 60
F	59 - 0

ENRICHMENT POINTS / HOW TO IMPROVE GRADES:



Complete additional work to earn points. Work must be submitted within (3) days from when it was assigned. *(Enrichment options are listed below)*

1) Give an oral presentation to the class: *(Miss Brown will model how to do this/NOT a written book report, may also be a recorded video)*

- a) bring in a magazine or newspaper article about a scientific concept – article must be (3) paragraphs or longer*
- b) give an **oral summary** of the article to the class – 1 to 4 minutes*
- c) describe what type of phenomena it is; and what area of science: physical, earth, life*
- d) explain why this topic interests you*

2) Teach the class about a scientific concept we are studying, develop the activity to be used with Miss Brown: *(see Miss Brown for specific ideas)*

3) Create (5+) informational cards about any of the scientific phenomena we are learning. *(see Miss Brown for examples of how to develop the cards)*