

Objectives:

7th grade are enrolled in an integrated year-long science course in which they use scientific inquiry skills to explore Earth Science, and Physical Science concepts outlined in the South Carolina November 2005 Science Standards. Through investigations, students will be working in small groups where various problem solving strategies and collaborative learning are implemented. The ultimate goal of the course is to produce scientifically literate citizens who understand and can apply science through various means the interdependence between science concepts, the limitations of science/technology, and using their knowledge to real-world problems and to make personal, social, and ethical decisions that have consequences beyond the classroom walls.

Content Standards:

Students will meet South Carolina Standards for Science with an emphasis on:
1. Science- The student will demonstrate an understanding of technological design and scientific inquiry, including problem solving, mathematical thinking, controlled investigative design and analysis, and problem solving.
2. Life Science- The student will demonstrate an understanding of the structure and function of cells, cellular reproduction, and heredity. The student will demonstrate an understanding of the functions and interconnections of the major human systems and the breakdown in structure or function that disease causes.
3. Earth Science- The student will demonstrate an understanding of how organisms interact with and respond to the biotic and abiotic components of their environment.
4. Physical Science- The student will demonstrate an understanding of the classifications and properties of matter and the changes of matter undergoes.

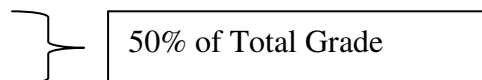
Disclaimer: Because our primary goal is to maximize student achievement, material may be added, deleted, and/or modified at the teacher's discretion based on the individual needs, levels, and learning styles of each class. Creative projects, presentations and supplemental materials may be included throughout the year as opportunities arise. There will be a variety of assessment as well as writing assignments.

Materials: You will need the following items by August 27.

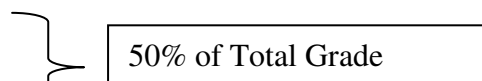
- 1 notebook (1 inch 3-ring binder)
- 1 loose-leaf notebook paper (not spiral)
- 1 facial tissue box
- 1 paper towel roll
- 1 pencils, sharpener
- 1 dividers

Materials: (any donation appreciated) paper towels, **candy for student rewards(and Labs) such as Jolly Ranchers, lollipops,** colored copier paper, gallon size baggies, quart size baggies, glue sticks, and/or Simple Green cleaner

Tests, Exams, Major projects



Class work which may include: Lab Write-ups,
Bell work, notebook check Homework



to Classroom: Students are to enter quietly and be prepared by the time the bell rings. This should not be done while the teacher is talking. Students who are to sit down and not be standing around or use this time to socialize with classmates.

Work may include worksheets or projects done in class. Class work will also include daily problems. Class work should be done when and where requested. **Students are expected to be prepared for class with paper, pen or pencil and science materials.** **It is the responsibility of other students to be prepared for unprepared students and they do not need to be disturbed by a student's lack of preparation. If a student cannot complete an assignment because of lack of preparedness and decision, the assignment the next day, it will be considered late.**

Work If students are diligent with their time and effort, most work can be completed in class and homework will be minimal. Time for exams or reviewing (some previewing) of class notes.

Work & Plagiarism: Students that are caught cheating or plagiarizing assignments will receive no credit, be referred to the principal, and will not be able to make up that assignment.

Lab Rules: At certain points students are expected to conduct research (independently or with a partner) or use technology to complete lab investigations. Students must adhere to the district policy which strictly prohibits downloading software, using social media sites, and accessing email not authorized by the teacher. Students will receive a zero if they do not abide by these rules and lose the privilege of using these tools.

Class: Class begins when the bell rings and ends when the teacher dismisses the students. It may not always be when the bell rings. The rare event that class ends a couple of minutes early, do not leave your seat until the bell rings. All trash must be picked up around each designated area before being dismissed.

Quiet Time: This time is designated for independent sustained silent reading or homework recovery. It is imperative that students complete their assigned task in a respectful quiet manner so the environment can be more conducive to learning and concentration.

Students are to line up quietly when told and keep their hands to themselves (no horse playing: tripping, pushing, etc.). Students should stop when the teacher signals and not disturb other classes on the way to lunch. Each student will be assigned a table by the teacher. During this time, they will wipe the tables and sweep up any items on the table assigned.

Bus/After school Announcements: Students are to remain quiet during this time and quietly work on homework or projects, and listen to when their bus is called. It is recommended that they have a book handy to read if they have completed their school work.

Make-up Work Students are expected to keep up with missing assignments when absent. If advance notice was given for an absence, assignment or test/project, students are expected to turn in their work or take an exam on the day they arrive back to class. If students do not have their assignments it will be deemed to be late and students will have to resort to the homework recovery procedure. Students are expected to follow the school's recovery program to complete late or missing assignments. ***Note: if there are any changes to this policy, students & parents will be notified immediately.**

Students are to respect the classroom, your fellow students, and the teacher with respect.

Students should be on time and prepared for class. Students should not be relying on others to provide them with pencils, paper or materials.

Tardy Policy: The student is considered tardy if not *inside* the classroom when the bell **stops** ringing.

Students are expected to observe all school rules listed in your school handbook.

Consequences for lack of responsibility: Note: In order to avoid the following consequences, it is always best to ask the teacher for help. Missing in a certain action will break a rule and result in a consequence. Students should follow the point system.

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Standards 7-1.1 - 7-1.7

- Science Process Skills
- Scientific Method
- Developing Testable Questions
- Formulating Hypothesis
- Identifying Variables
- Conducting Controlled Scientific Experiments
- Analyzing Data
- Drawing Conclusions
- Using Appropriate Safety Procedures
- Technological Design

Standards 7-2-1 - 7-2.4

- 3, 4, and 5
- Microscopes
- Cell Structures and Functions
- Plant vs. Animal Cells
- Bacteria
- Protist
- Photosynthesis
- Respiration
- Waste Elimination
- Mitosis

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Standards: 7-4.1 – 7-4.3

- 3 and 14
- Organization within Ecosystems
- Food Chains
- Food Webs
- Energy Pyramid
- Limiting Factors
- Population Changes

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Standards 7-4.4 – 7-4.6

2nd Quarter

Heredity

SC Science Standards 7-2.5 – 7-2.7
Chapter 6

- _____ Patterns of Inheritance
- _____ Punnett Squares
- _____ Inherited versus Acquired Traits

Human Body

SC Science Standards 7-3.1-7-3.3
Chapters 7, 8, 9, 10, and 11

- _____ Organization of the Human Body
- _____ Circulatory System
- _____ Respiratory System
- _____ Digestive System
- _____ Excretory System
- _____ Nervous System
- _____ Muscular System
- _____ Skeletal System

Human Diseases

SC Science Curriculum Standards 7-3.4
Chapter 12

- _____ Infectious Diseases
- _____ Non-Infectious Diseases

4th Quarter

Chemistry

SC Science Standards 7-5.1 – 7-5.10
Chapters 4, 17, 18, 19, 20, and 21

- _____ Matter
- _____ Elements, Compounds, and Mixtures
- _____ Metals versus Non-metals
- _____ Periodic Table
- _____ Chemical Symbols and Formulas
- _____ Acids and Bases