

Fifth Grade Pre-AP Science – Syllabus

Teacher: Bethany Berry

Conference Time: 10:40-11:25 a.m.

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Text:

Science books are all electronic and can be accessed as follows:

Link: <https://n11052d40706.acceleratelearning.com/login>

Username: MISD student id#

Password: first and last initial followed by date of birth (mmdyy)

Description:

Fifth grade students will cover Nature of Science, Physical Science, Life Science, and Earth Science concepts. Refer to www.mansfieldisd.org/curriculum/science/home.htm for curriculum.

Goals:

By the end of the fifth grade, students will be able to:

- Plan and implement investigations using scientific methods
- Collect information by observing and measuring with tools.
- Analyze data by constructing tables and graphs to evaluate information.
- Produce models to represent the natural world, show how systems work, and identify structures.
- Identify significance of cycles, structures, and process that interact: including seasonal, lunar, water, carbon, nitrogen, and life cycles.
- Explore traits inherited from parent to offspring and learned behaviors that result from the influence of the environment.
- Determine the role of the Sun's energy in cycles including plants, animals, water, weathering, and erosion.
- Identify and describe changes that occur over time, including weathering on landforms, erosion, sedimentary rock sequences, Earth's natural resources, renewable and nonrenewable resources, and the formation of fossil fuels.
- Predict adaptive characteristics needed for survival in an ecosystem.
- Compare physical characteristics of the Earth and moon.
- Classify matter based on physical properties and identify changes that occur in mixtures and when heat is added or removed.
- Differentiate among forms of energy, including light, heat, electrical, and sound.
- Determine substances ability to conduct or insulate heat, electricity, and magnetism.
- Build and expand vocabulary, through a print rich environment, to increase fluency and understanding by incorporating scientific vocabulary into their everyday speaking, listening, and writing routines.
- Evaluate their own work and the work of others.

Requirements:

All students will be required to maintain a planner (provided at no cost) for recording assignments and homework. The planner is required throughout the year for assignments and communication in all classes. If the first planner is lost, another one can be purchased for \$3 from the office.

All students will be required to have 1 composition books to be left in class for science journaling and lab reports.

A spiral notebook/pocket folder will be used to record science vocabulary notes. The spiral notebook/pocket folder will be kept in the student's binder to be used for study both in the classroom and at home. Five vocabulary words will be presented and defined at the beginning of each week. Students will study and use these words both in class and as homework. This will prepare them to take a vocabulary quiz over these new words at the end of each week.

Both home and class projects may be assigned throughout the year. Details will be provided as they are assigned. Other homework assignments may also be given to help a student make connections between classroom learning and the real world.

Resources:

To check on student grades, go to <http://www.mansfieldisd.org/>. Click on “Skyward” and follow the directions. Student grades and assignments are updated each week. Parents may set up an Infinite Campus student account to check grades from home.

Course Calendar/Schedule: (Subject to change)

Semester 1	Lab Safety/Matter and Energy Force and Motion Earth Cycles
Semester 2	Earth Resources Organisms and Environment Science Boot Camp
	1 st Instructional Period - Aug. 16 – Sept. 29
	2 nd Instructional Period - Oct. 2 – Nov. 3
	3 rd Instructional Period - Nov. 6 – Dec. 21
	4 th Instructional Period - Jan. 9 – Feb. 16
	5 th Instructional Period - Feb. 20 – April 13
	6 th Instructional Period - April 16 – May 23

Late Work:

Attendance – Regular school attendance is essential for students to gain the maximum benefit from teacher-led and school activities. An unexcused tardy will result in action being taken in accordance with school policies. See school discipline policy regarding citations and other violations.

- 1 class day late – maximum grade of 85%
- 2 class days late – maximum grade of 70%
- More than 2 class days late – maximum grade of 50%

Class Participation:

Student lab work will be monitored and assessed for participation.

Missed Exams/Assignments:

Students can make-up assignments or tests after excused absences. Students will have the same number of days they are absent to make up work. Students should consult with the teacher after an absence to identify work that needs to be completed. It is the student’s responsibility to get the assignments from the teacher. Students can look at the assignment book kept in classroom for missed assignments.

Lab Safety:

The science lab is a great opportunity to discover and learn! However, it can be a place of danger if common-sense precautions aren’t taken. Students are expected to learn and follow general safety guidelines to keep the lab a safe place. Goggles will be worn when directed by the teacher. Closed toe shoes (not sandals) must be worn in the lab to prevent injury. Horseplay is not allowed. Additional precautions will be announced prior to certain experiments. Students who choose not to follow all safety rules will be removed from the activity. MISD lab safety agreements must be signed and a lab safety quiz must be passed with 100%.

Test Retakes:

Students who fail a major test/assessment (below 70%) will be allowed to retake or correct up to a 70% grade. Students will have to make arrangements with the teacher to retake or correct a major test/assessment. All retakes or corrections must be completed prior to the end of each six weeks grading period. Students are encouraged to attend tutorials.

Academic Dishonesty:

A student found cheating or aiding in cheating will receive a grade of zero on the assignment and the teacher will contact the parent. Cheating will include being in possession of another student’s assignment without the teacher’s permission.

Grading:

Grade percentages – 50% Daily Assignments/Quizzes, 40% Major Tests/Projects, 10% Homework.

Available Support Services:

The teacher is available by appointment for student support/tutoring. Library resources enhance classroom studies and are available for check-out and use. Tutoring, Stem Scopes and Study Island are also available.