



MTCHS

Technical, Professional, and Academic Excellence

Bandlamudi: Freshmen Earth Science/Tech Tools Syllabus

Classroom: 103

Email: sarah.bandlamudi@mtchs.org

Building Hours: M-F 7:00 am -3:00 pm

Course Overview

Freshman Earth Science / Tech Tools is a course designed to expose students to the many facets of Earth Science and integration of Technology. Students will utilize technology to manipulate and interpret data as it relates to the Earth and important systems that interact with the Earth. You will earn credit for Earth Science and Tech Tools during this blocked course. Although any given day may or may not be designated as Earth Science or Tech Tools, you will earn separate grades during the class time depending on the activities of that particular day. Curriculum is aligned to Idaho State Earth and Space Science Standards and supplemented using CK-12 Earth Science for High School and additional digital and physical resources.

Textbook/Resources:

CK-12 Online Earth Science FlexBook 2.0

MTCHS Grading Scale	Grading Categories for Earth Science		Grading Categories for Tech Tools	
		Weight		Weight
A = 90-100	Classwork/Labs	30%	Professionalism	10%
B = 80-89	Projects	20%	Projects	40%
C = 70-79	Portfolios	20%	Participation	20%
WP = 0-69	Tests/Quizzes	20%	Tests/Quizzes	30%

Grades are earned once a student has demonstrated the specific competencies for a given unit or section of study. Unit assessments and course final exams will be given to demonstrate knowledge of content..

Course Units by Quarter

Fall Semester

Unit 1: Science Found. & Geologic Time

- Scientific Method
- Data and Graphs
- Geologic Geological Eras and Periods
- Fossils

Unit 2: Intro to Geology

- The Crust
- Plate Tectonics
- Earthquakes/ Volcanoes
- Mountain Building Processes

Unit 3 and 4: Astronomy

- The Earth and Moon
- Inner and Outer Planets
- Exoplanets
- Asteroids, Meteors, and Comets
- The Sun and Solar Activity
- Stellar Evolution (Life Cycles of Stars)
- Galaxy Types & The Big Bang Theory

Spring Semester

Unit 5: Weather and Climate

- The Atmosphere
- Weather vs. Climate
- Cloud Formation & Precipitation
- Severe Weather Systems (Tornadoes, Hurricanes, etc.)

Unit 6: Rocks and Minerals

- The Rock Cycle
- Rocks and Minerals

Unit 7: Water Resources

- Water Cycle
- Hydrology

Unit 8: Oceanography

- Ocean Mechanics
- Marine Ecosystems & Biomes
- Ocean-Atmosphere Interactions (El Niño, La Niña)
- Human Impact on Oceans

This is only a general outline of the semester activities and may be changed to better suit the needs of the students, teacher or school.

Late Work Policy

Students may receive no more than 70% for any late assignment. Any missing or late assignment may be submitted up to two (2) school business days after the assignment due date in PowerSchool. Exceptions to this policy may be requested by the student in writing or email. The instructor will make the final determination on extension requests and will inform the student of the decision in writing or email.

Individual teacher will determine due date on make-up/redo assignment.

End-of-Term Deadlines: No late work will be accepted after the conclusion of grading periods, such as the end of a quarter or semester.

Academic integrity expectations:

At MTCHS, students are expected to uphold the highest standards of academic integrity. Academic dishonesty, including but not limited to cheating, plagiarism, unauthorized collaboration, fabrication of data, and other forms of misconduct, will not be tolerated.

Guidelines:

- All work submitted must be the student's **original work** unless collaboration/software is specifically authorized.
- Proper citation must be used when incorporating external sources.
- Students are responsible for maintaining the security of their own work.
- Using unauthorized aids during assessments is prohibited.

Consequences:

- First offense: Parent contact and assignment redo for partial credit.
- Repeated offenses: Referral to administration

Students are encouraged to seek clarification if they are unsure whether an action might constitute a violation of academic integrity.

Classroom Expectations

- Be respectful to all students and staff.
- Be prepared and participate actively; you will need your computer every day.
- Advocate for yourself when needed to be able to be successful
- Follow all safety protocols, especially during labs.
- Seek the knowledge needed to be successful.
- Communication is key and is required from all students.