

BCAM EARTH SCIENCE COURSE OVERVIEW: 2016-17

COURSE TITLE: EARTH SCIENCE TEACHER: LAWRENCE

GRADE: 10 ROOM #: 307 TEACHER BCAM EMAIL: MR.LAWRENCE334@GMAIL.COM

COURSE DESCRIPTION: *This is an overview of the course, including why it will be interesting for our students and what they will gain from completing the course.*

This course provides the opportunity to develop knowledge and understanding about the relationships between the structure, processes, and resources on Earth and other solar bodies. Emphasis is placed on laboratory and field experiences. This course requires the student to learn independently as well as cooperatively. This course is designed to meet the state standards relating to earth science.

ENDURING UNDERSTANDINGS: *These are the most important ideas for the course. At the end of the course, students will understand:*

- **Earth is an integrated system composed of atmosphere, lithosphere, hydrosphere, and biosphere. Interactions among these subsystems are results of energy and material flowing between them.**
- **The earth's surface, atmosphere, and life have changed throughout time and will continue to change.**
- **Matter is made up of particles whose properties determine the observable characteristic of matter and its reactivity.**
- **Human decisions and activities have had a profound impact on the physical environment.**
- **The Earth and celestial phenomena can be described by principles of relative motion and perspective.**

SPECIFIC ACADEMIC SKILLS: *These are the most important skills for the course. At the end of this course, students will be able to:*

- **Presenting clear claims/arguments and evidence to support these claims**
- **Interpreting and creating graphs**
- **Spatial reasoning**
- **Observations, classification and create inferences based on observations**
- **Map reading**

CCL STANDARDS: *These are the important Common Core Learning Standards (in short form) that will drive the curriculum and connect to units of study and academic skills.*

- **Cite specific textual evidence to support analysis of science texts.**
- **Determine the central ideas or conclusions of a text.**
- **Determine the meaning of symbols, key terms, and other domain specific words and phrases.**
- **Translate quantitative or tech information expressed in words in a text into visual form.**
- **Write arguments focused on discipline specific content**

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ASSESSMENTS OF SKILLS/STANDARDS: *These are the major formative and summative measures that will be used to assess student progress in the course.*

- **Write claims and stories about key concepts/vocab using evidence and reasoning**
- **Performance task around creating interpreting graphs, charts, and maps**
- **Research posters**
- **End of unit exams, vocabulary quizzes, bi weekly content quizzes,**

UNITS OF STUDY: *These are the titles/descriptions of the primary units covered during the course.*

1. Measuring Earth

2. Meteorology

3. Rocks and Minerals

4. Landscapes

5. Dynamic Crust

6. Earth's History

7. Astronomy

8. Meteorology

TEXTS/MEDIA: *This is a sampling of texts, media, and resources that will be covered/utilized in the course.*

Holt Science Technology Earth Science textbook

ED Puzzle

Kahoot

Newsela.com

COURSE RULES AND GUIDELINES: *These are the mechanisms that will manage the class and if followed result in student success for this course.*

- **Be on time**
- **Bring science notebook, pencil, and homework**
- **Be respectful of the classroom, other's feelings, belongings, and their time**
- **Water only**
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COURSE HOMEWORK POLICY: *This is an overview of homework distribution schedule and the process for completion and collection.*

Homework is given at least three times per week. Students turn in homework into the homework bins at the back of the class upon entering the room. For late assignments 10% deduction is for everyday late.