

Eighth Grade Science Syllabus

Mr. Karpes

PURPOSE:

Students are working on the 2016 Massachusetts Science and Technology/Engineering curriculum frameworks. Students in this grade will focus on connections and relationships in systems, recognizing changes on the Earth's surface over time, life cycles, types of energy, and flow of energy. Students will be conducting investigations followed by students analyzing data and applying scientific principles. Finally, the students will be creating arguments based on evidence or constructing explanations of evidence.

CONTENT:

Earth Science

- Earth's Systems and Natural Hazards
- Geoscience Processes

Life Science

- Reproduction in Plants and Animals
- Flow of Energy and Matter in Ecosystems
- Interdependent Relationships in Ecosystems

Physical Science

- Kinetic Energy
- Potential Energy
- Energy Transfer in Temperature

GRADING POLICY: The student's term grade is based on a "total point" system.

Summative Unit Assessment

- Projects
- Independent work
- Group work

Formative Unit Assessment

- Quiz

Science Inquiry Assessment

- Labs
- Projects

Class Engagement Activities

- Attendance
- Active listening and appropriate behavior
- Participation in discussions
- Note taking
- Group work

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