

Bracken County Middle School
7th Grade Science
2008-2009

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Course Description

The 7th Grade Science class will continue to build upon core science concepts in life, physical and earth sciences. During the year the major areas of emphasis will include cellular processes common to living things, heredity/genetics, physical and chemical changes in matter, relationship between forces and motion, the earth and changes in its surfaces, gravity, the usefulness of fossil information about past life forms and environmental conditions, and the relationship of the extinction of a species and environmental changes.

Course Standards

- Students understand scientific ways of thinking and working and use those methods to solve real-life problems.
- Students identify, analyze, and use patterns such as cycles and trends to understand past and present events and predict possible future events.
- Students identify and analyze systems and the ways their components work together or affect each other.
- Students use the concept of scale and scientific models to explain the organization and functioning of living and nonliving things and predict other characteristics that might be observed.
- Students understand that under certain conditions nature tends to remain the same or move toward a balance.
- Students understand how living and nonliving things change over time and the factors that influence the changes.

Method of Grade Calculation

Students will be evaluated on class assignments and activities, but not limited to the following: Notebook/Folder, Labs, Daily Assignments, Test/Quizzes, Projects

Textbook

Biggs, Alton, Feather, Ralph M., Rillero, Peter, & Zeke, Dinah. *Glencoe Science Level Green*. McGraw Hill, Columbus, Ohio, 2008.

Required Materials:

- Spiral Notebook
- Coloring Pencils
- Glue
- Paper
- Folder
- Pencils

Classroom Rules

- Be in class on time – walk in quietly and have a seat.
- Keep your hands, feet, and objects to yourself.
- Listen to instructions the first time they are given.
- Raise your hand and wait for permission to speak.

Participation and Attendance

Students will be expected to be on time and prepared for class with homework and necessary materials. Attendance is of **VITAL** importance for the success of students – discussion and labs are impossible to make-up and make it difficult when the student misses class.

Course Content

First Semester

Scientific Process & Characteristics of Living Things

2 weeks

Cell and Cell Processes	7 weeks
Heredity	5 weeks
Sexual and Asexual Reproduction	2 weeks
<u>Second Semester</u>	
Classifying Substances	2 weeks
Elements, Compounds and Properties	4 weeks
Forces and Motion	4 weeks
Earth's Layers and Changes in Surfaces	3 weeks
Energy	1 week
Fossils, Extinctions and Clues to the Past	3 weeks