

## Science Infinity Earth Science Syllabus

### **Homework:**

There will be some reading homework every time the class meets. This is only to help reinforce what has been learned during class, and to clear up any doubts during class. Additionally, students will be required to solve some of the review questions at the end of each chapter. This work should be legible, and in a notebook or loose-leaf notebook paper. These will be checked off, and will be peer graded in class. Any questions about the homework will also be addressed.

### **Quizzes/Tests:**

There will be occasional tests and quizzes. Tests will be announced ahead of time, but there might be a few pop quizzes, so that the teachers can understand what needs to be retaught. These quizzes will take no longer than 10 minutes, so don't stress over this. The tests will take up a good chunk of class time, and will be graded and handed back either during the class itself, or the next class.

### **Geology**

The Earth and its Processes

- Types of Rocks & Minerals and Their Formation
- Weathering, Soil, and Mass Wasting
- Running Water // Groundwater
- Glaciers, Deserts, and Wind
- Plate Tectonics, Earthquakes, and Earth's Interior
- Volcanoes & Igneous Activity
- Crustal Deformation and Mountain Building
- Geologic Time

### **Oceanography**

The Vast Ocean

- The Ocean Floor & Processes
- The Dynamic ocean

### **Meteorology**

The Ever-Changing Atmosphere

- Composition, Structure, and Temperature
- Moisture, Clouds, and Precipitation
- Air Pressure and Wind
- Weather Patterns and Severe Storms
- World Climates & Climate Change

### **Astronomy**

Beyond the Earth

- Origins of Astronomy
- The Solar System
- Beyond the Solar System
- Weird and Cool Celestial Objects