

Plate Tectonics Unit Organizer

6th Grade Crisafulli /Huey /Jordan

Previous Unit

Oceans or Diseases

Next Unit

Oceans or end of year

Integrated Units

Energy

Oceans

Astronomy

Core Knowledge Content (Knowledge)

- ✓ The surface of the earth
- ✓ Layered structure of the earth
- ✓ Crust movements
- ✓ Volcanoes
- ✓ Evidence of long term plate movement

State and District Guidelines (Patterns)

6.6.G Recognize that patterns exist within and across systems

Standards for Achievement and Performance (Mental Mapping)

Students will-

- describe the characteristics of the layers of the Earth
- explore Wegener's theory of continental drift
- simulate the chemical and mechanical weathering of rocks
- discuss the roles of weathering, erosion, and deposition in the formation of sedimentary rocks
- discover that igneous rocks form when hot liquid rock from the mantle wells up into the crust and cools
- explore the interactions of metamorphic, sedimentary, and igneous rocks in the rock cycle
- demonstrate the formation of folded, dome, and fault-block mountains
- distinguish between compressional and shear waves
- discuss the Richter scale
- explore how a seismograph detects and records the movements of the earth during earthquakes
- identify the Ring of Fire
- define isostasy and discuss the earth processes that affect it

explore the effects of convection currents on the earth's crust
relate the convection currents to ocean-floor spreading and subduction
relate the earth processes they have learned about to the theory of
plate tectonics

Types of Assessments (Creativity)

Students will take a variety of quizzes over the content covered.
Students will demonstrate their understanding of the content through
experiments and will record findings in an experiment log.
Students will take a final exam