**Pacing Guide**

**2012-2013**

**September** MEAP Prep

* Chapter 2 Matter and Its Changes
* Chapter 3 Minerals

**Semester 1**

**I. Unit 5 Earth’s Air and Water**

HSCE’s E4. The Fluid Earth

* + - * + E4.p2 Weather and Atmosphere
        + E4.2 Oceans and Climates
        + E4.3 Severe Weather
        + E5.4 Climate Change

Glencoe

* + - * + Chapter 14 Atmosphere
        + Chapter 15 Weather
        + Chapter 16 Climate
        + Chapter 17 Ocean Motion
        + Chapter 18 Oceanography

**II. Unit 7 Astronomy**

HSCE’s E5 The Earth in Space and Time

* + - * + E5.p1 Sky Observations
        + E5.1 The Earth in Space
        + E5.2 The Sun
        + E5.2x Stellar Evolution

Glencoe

* + - * + Chapter 21 Exploring Space (part)
        + Chapter 22 The Sun-Earth-Moon Systems (part)
        + Chapter 23 The Solar Sytems
        + Chapter 24 Stars and Galaxies (heavy emphasis)

**Semester 2**

**III. Unit 4 Change and Earth’s History**

HSCE’s E5 The Earth in Space and Time

* E5.3 Earth History and Geologic time
* E5.3x Geologic Dating

Glencoe

* Chapter 12 Clues to Earth’s Past
* Chapter 13 Geologic Time

**IV. Unit 3 Earth’s Internal Process**

HSCE’s E3 The Solid Earth

* + E3.p3 Basic Plate Tectonics
  + E3.2 Interior of the Earth
  + E3.3 Plate Tectonics Theory
  + E3.4 Earthquakes and Volcanoes

Glencoe

* + Chapter 9 Earthquakes
  + Chapter 10 Volcanoes
  + Chapter 11 Plate Tectonics

**V. Unit 1 Earth Materials**

HSCE’s E3 The Solid Earth

* + E3.p2 Rocks and Minerals
  + E3.1 Advanced Rock Cycle

Glencoe

* + Chapter 3 Minerals (small part)
  + Chapter 4 Rocks

**VI. Unit 2 The Changing Surface of the Earth**

HSCE’s E3 The Solid Earth

* E3.p1 Landforms and Soils
* E4.p3 Glaciers
* E4.1 Hydrogeology

**Yearlong Concepts**

**Common Core**

**Key Ideas and Details**

* RST.6-8.1. Cite specific textual evidence to support analysis of science and technical texts.
* RST.6-8.2. Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.
* RST.6-8.3. Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.

**Craft and Structure**

* RST.6-8.4. Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to *grades 6–8 texts and topics*.
* RST.6-8.5. Analyze the structure an author uses to organize a text, including how the major sections contribute to the whole and to an understanding of the topic.
* RST.6-8.6. Analyze the author’s purpose in providing an explanation, describing a procedure, or discussing an experiment in a text.

**Integration of Knowledge and Ideas**

* RST.6-8.7. Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table).
* RST.6-8.8. Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.
* RST.6-8.9. Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.

**Range of Reading and Level of Text Complexity**

* RST.6-8.10. By the end of grade 8, read and comprehend science/technical texts in the grades 6–8 text complexity band independently and proficiently.

**HSCE’s**

E1 Inquiry, Reflections and Social Implications

* E1.1 Scientific Inquiry
* E1.2 Scientific Reflection and Social Implications

E2 Earth Systems

* E2,1 Earth Systems Overview
* E2.2 Energy in Earth Sytems
* E2,3 Biogeochemical Cycles
* Resources and Human Impacts on Earth Systems