**Pacing Guide**

**7th Grade**

**2012-2013**

**September** **I. Metrics and Methods**

(MEAP Prep) GLCE’s

* + - * + S.IP.M.1 Inquiry

Textbook: The Nature of Science

* + - * + Chapter

**Semester 1**

**II. Matter**

GLCE’s

* + - * + P.PM.M.1: Chemical Properties
        + P.PM.M.2: Elements and Compounds
        + P.CM.M.2: Chemical Changes

Textbook: Matter: Building Blocks of the Universe

* + - * + Chapter

**III. Cells & Heredity**

GLCE’s

* + - * + L.OL.M.2: Cell Functions
        + L.OL.M.3: Growth and Development
        + L.OL.M.2: Photosyntheis
        + L.HE.M.2: Reproduction

Textbook: Cells; Building Blocks of Life

* + - * + Chapter

**Semester 2**

**III. Cells & Heredity (Continued)**

GLCE’s

* + - * + L.OL.M.2: Cell Functions
        + L.OL.M.3: Growth and Development
        + L.OL.M.2: Photosyntheis
        + L.HE.M.2: Reproduction

Textbook: Cells; Building Blocks of Life

* + - * + Chapter

**IV. Earth: Weather and Climate**

GLCE’s

* + - * + E.ES.M.1 Solar Energy
        + E.ES.M.4 Human Consequences
        + E.ES.M.7 Weather and Climate
        + E.ES.M.8 Water Cycle
        + E.FE.M.1 Atmosphere

Textbook: Weather and Climate

* + - * + Chapter

**V. Sound and Light**

GLCE’s

* + - * + P.EN.M.3: Waves and Energy
        + P.EN.M.4: Energy Transfer
        + P.EN.M.6: Solar Effects

Textbook: Sound and LIght

* + - * + Chapter

**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.

**GLCE’s**

* **S.IP.M.1 Inquiry involves generating questions, conducting investigations, and developing solutions to problems through reasoning and observation.**
* **S.IA.M.1 Inquiry includes an analysis and presentation of findings that lead to future questions, research, and investigations.**
* **S.RS.M.1 Reflecting on knowledge is the application of scientific knowledge to new and different situations. Reflecting on knowledge requires careful analysis of evidence that guides decision-making and the application of science throughout history and within society.**