HOW TO READ A...Delaware Science Literacy Concept Organizer

The Science Literacy Concept Organizers, were created to assist teachers in aligning their instruction to the Common Core State Standards. These Science Literacy Concept Organizers are <u>not</u> replacements for teachers' individual units. They are deconstructions of the Common Core State Standards. These Literacy Concept Organizers are a resource from which teachers can select appropriate *Knowledge*, *Understandings*, and *Dos* to develop their own unit(s) of instruction.

Knowledge: Refers to information such as vocabulary terms, definitions, and facts that may or may not need explicit instruction, however, are the foundation on which the lesson will be built. *Understandings:* Refers to the important ideas, principles, and generalizations that allow students to make connections and see patterns and relationships among content. These are the goals of the instruction, outcomes you expect to achieve.

Dos: Refers to demonstration of skills. These are the skills that require explicit instruction. By the completion of a lesson/unit, students should have mastered the selected skill(s).



Core State Standards for ELA



Delaware Science Literacy Concept Organizer

These Science Literacy Concept Organizers are not replacements for teachers' individual units. They are deconstructions of the Common Core State Standards. These Literacy Concept Organizers are a resource from which teachers can select appropriate Knowledge, Understandings, and Dos to develop their own unit(s) of instruction.

GRADE 6-8 – Key Ideas and Details **Common Core State Standard** Reading Standard 1 for Literacy in Science and Technical Subjects

College and Career Ready (CCR) Anchor Reading Standard for Literacy in Science and Technical Subjects (1): Read closely to determine what the text says explicitly and to make logical inferences from it; cite specific textual evidence when writing or speaking to support conclusions drawn from the text. CCSS – Grade Level Reading Standard 1 (Literacy in Science and Technical Subjects) Grade 6-8: Cite specific textual Grade 9-10: Cite specific textual Grade 11-12: Cite specific textual evidence to support analysis of evidence to support analysis of evidence to support analysis of science and technical subjects. science and technical texts, attending science and technical texts, to the precise details of explanations attending to important distinctions or descriptions. the author makes and to any gaps or inconsistencies in the account. Understand Do Know (procedural & application) (factual) (conceptual) Scientists and engineers • Use the combination of explicitly Informational text (science • • include key details in stated information, background expository/technical texts) informational texts which knowledge, and connections to How to cite specific textual • can help a reader develop the text to answer questions they evidence (e.g., data tables, and answer scientific have as they read scientific charts, case studies, questions. • Differentiate between quantitative(number based) quantitative and qualitative data research and other non-fiction Scientists and engineers Describe the connection between • ٠ resources) make specific choices the scientist's purpose and the How to analyze (e.g., bias, • about the selection of text credibility, point of view, informational text(s) • Identify/cite and explain perspective) relevant to their research. information from specific textual Audience ٠ evidence (e.g., data tables, Purpose • Scientists and engineers scientific charts, case studies, • How to draw scientific • analyze the reliability of quantitative(number based) conclusions the scientific information Identify/cite appropriate text • Background knowledge ٠ within a document/text. support for inferences, Critical/analytical judgments • hypothesis and conclusions Explicitly stated information • Differentiate between strong and • from the text(including strengths weak textual support and limitations) Develop scientific conclusions **Reading Recursive Strategies:**

Assimilating prior knowledge 0

Rereading to clarify information 0

Seeking meaning of unknown vocabulary 0

Making and revising predictions 0

0 Using critical and divergent thinking and assimilating prior knowledge to draw conclusions

Making connections and responding to text 0

These recursive strategies are the basic reading strategies that students must know and use to become successful readers. Some of the strategies are not explicitly stated in the Common Core State Standards for ELA.

2



These **Science Literacy Concept Organizers** are <u>not</u> replacements for teachers' individual units. They are deconstructions of the Common Core State Standards. These Literacy Concept Organizers are a resource from which teachers can select appropriate *Knowledge*, *Understandings*, and *Dos* to develop their own unit(s) of instruction.

 about theories in a text Analyze sources for bias, credibility, point of view, perspective, and purpose for the scientific community Cite specific textual evidence to support analysis of science and
technical subjects.

CCSS-Grade Specific Standard 10 (Grade 6-8)

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

Reading Recursive Strategies:

- Assimilating prior knowledge
- Rereading to clarify information
- Seeking meaning of unknown vocabulary
- Making and revising predictions
- Using critical and divergent thinking and assimilating prior knowledge to draw conclusions
- Making connections and responding to text

These recursive strategies are the basic reading strategies that students must know and use to become successful readers. Some of the strategies are not explicitly stated in the Common Core State Standards for ELA.

3