

Week 1: Learning Research Skills

LESSON 1: OVERVIEW OF THE SOLAR SYSTEM
GRADE LEVEL: 3-5
LENGTH: 2 DAYS

TEKS/SES:

Science

Grade 3

3.2.A 3.2.B 3.3.C 3.4.A 3.8.C 3.8.D

Grade 4

4.2.A 4.2.C 4.4.A

Grade 5

5.3.C 5.4.A

Full text versions of these TEKS are available at <http://ritter.tea.state.tx.us/rules/tac/chapter112/ch112a.html>

Math

Grade 3

3.4.B 3.11.A 3.14.B 3.14.D 3.15.A

Grade 4

4.4.D 4.14.B 4.14.D 4.15.A

Grade 5

5.3.B 5.10.C 5.14.B 5.14.D 5.15.A

Full text versions of these TEKS are available at <http://ritter.tea.state.tx.us/rules/tac/chapter111/ch111a.html>

Language Arts

Grade 3

3.4.B 3.17.A 3.20.A.ii 3.29.B 3.31

Grade 4

4.2.A 4.2.B 4.15.A 4.18.A.ii 4.27.B 4.29

Grade 5

5.2.A 5.2.B 5.15.A 5.18.A.ii 5.18.A.iii 5.27.B 5.29

Full text versions of these TEKS are available at <http://ritter.tea.state.tx.us/rules/tac/chapter110/ch110a.html>

NATIONAL STANDARDS

Science

Unifying Concepts and Processes

- Change, constancy and measurement

Science as Inquiry

- Abilities necessary to do scientific inquiry
- Understanding about scientific inquiry

Earth and Space Science

- Earth in the solar system

History and Nature of Science

- Science as human endeavor
- Nature of science
- History of science

Math

Number and Operations

- Understand numbers, ways of representing numbers, relationships among numbers, and number systems

Measurement

- **Understand measurable attributes of objects and the units, systems, and processes of measurement**
- **Apply appropriate techniques, tools, and formulas to determine measurements.**

Data Analysis and Probability

- **Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them**

Problem Solving

- Build new mathematical knowledge through problem solving

Communication

- Organize and consolidate their mathematical thinking through communication
- Communicate their mathematical thinking coherently and clearly to peers, teachers, and others
- Analyze and evaluate the mathematical thinking and strategies of others;

Representation

- Create and use representations to organize, record, and communicate mathematical ideas
- Use representations to model and interpret physical, social, and mathematical phenomena

Language Arts

- NL-ENG.K-12.1 Reading for Perspective: Students read a wide range of print and nonprint texts to build an understanding of texts, of themselves, and of the cultures of the United States and the world; to acquire new information; to respond to the needs and demands of society and the workplace; and for personal fulfillment. Among these texts are fiction and nonfiction, classic and contemporary works.
- NL-ENG.K-12.3 Evaluation Strategies: Students apply a wide range of strategies to comprehend, interpret, evaluate, and appreciate texts. They draw on their prior experience, their interactions with other readers and writers, their knowledge of word meaning and of other texts, their word identification strategies, and their understanding of textual features (e.g., sound-letter correspondence, sentence structure, context, graphics).
- NL-ENG.K-12.7 Evaluating Data: Students conduct research on issues and interests by generating ideas and questions, and by posing problems. They gather, evaluate, and synthesize data from a variety of sources (e.g., print and nonprint texts, artifacts, people) to communicate their discoveries in ways that suit their purpose and audience.
- NL-ENG.K-12.8 Developing Research Skills: Students use a variety of technological and information resources (e.g., libraries, databases, computer networks, video) to gather and synthesize information and to create and communicate knowledge.