

Subject: Science

Calendar: 2008-2009

Timeframe: 4 weeks

Level/Grade: 3rd

Geography

Unit Objectives:

TLW:

1. Represent the natural world using models.
2. Evaluate the impact of research on the environment.
3. Identify some of the forces that change Earth's surface.
4. Describe the ways different landforms look.
5. Recognize why landforms constantly change.
6. Describe how wind, water, and ice shape Earth's surface.
7. Identify earthquakes, volcanoes, and floods.
8. Describe how earthquakes, volcanoes, and floods change the surface of Earth.
9. Evaluate the impact of research and technology on scientific thought, society, and the environment.
10. Identify careers related to science.
11. Connect chapter concepts with contributions of scientists.
12. Extend chapter concepts with hands-on investigations.
13. Describe what resources are.
14. Identify common resources.
15. Give examples of how people use resources.
16. Give examples of resources that will and will not run out.
17. Describe recycling, and identify the way recycling saves resources.
18. Give examples of other ways to conserve resources.
19. Represent the natural world using models.
20. Evaluate the impact of research on the environment.

- Lesson on the different kinds of landforms
- Landform Books
- Shaving cream landforms
- Lesson on how landforms can change
- Investigation: Fold's in the Earth's Crust
- Investigation: Volcano
- Lesson on natural resources
- Field trip to the East Texas Oil Museum

Vocabulary: Human Feature, Physical Feature, Mineral, Environment, Landform, Mountain, Valley, Canyon, Weathering, Erosion, Glacier, Earthquake, Volcano, Flood, Creep, Recycle, Model, Investigate, Interpret Data

Activity Type:

Hands-On

Discussion

Guided Practice

Lecture

Field Trip

Science Investigation

Safety Goggles **TEKS:**

Science:

3.1A, B

3.2A, B, C, D

3.3B, C and D

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Matter and Forces

Unit Objectives:

TLW:

1. Identify a push
2. Identify a pull.
3. Will compare changes in an object when a force is applied
4. Identify physical properties of matter
5. Classify matter into liquid, gas, or solid

- Investigate: Attribute of matter
- Investigate: The Property Game
- Lesson on physical properties of matter
- Investigate: Mystery Film Cans
- Lesson on States of Matter
- Investigate: States of Matter
- Investigate: Measuring Pushes and Pulls
- Lesson on Forces and Motion

Vocabulary: Matter, physical property, solid, liquid, gas, atom evaporation, volume, mass, attribute, physical change, mixture, solution, chemical change, energy, thermal energy, heat, conductor, insulator, thermometer, force, motion, speed, gravity, weight, work, simple machine, inclined plane, lever,

Activity Type: Hands-On Discussion Guided Practice Lecture Investigations	TEKS: 3.4A, B 3.6A, B 3.7A, B
Materials: Calculators Sound Recorders Clocks Thermometers Hand Lenses Meter Sticks Rulers Balance Magnet Compass	

SE Modifications: Extra time Peer tutoring Shortened Assignments Content Mastery The Learning Center (Title 1 Resource Room)	Resources: Harcourt Science Bridging II TAKS	TA TEKS: 3.4A, B
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GT Modifications: Predict Outcomes of Activities	Evaluation Methods: Teacher observations Question & Answer Worksheets Tests
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Solar System

Unit Objectives:

TLW:

1. Identify the planets in our solar system
2. Describe the characteristic of the Sun
 - Ordering Planet Data Chart
 - Design a model of the solar system
 - Create a Solar System book

Vocabulary: Solar System, orbit, planet, asteroid, comet, rotation, axis, revolution

Activity Type: Hands-On Discussion Guided Practice Lecture	TEKS: 3.11 C, D
Materials: Misc. materials to make planets	

SE Modifications: Extra time Peer tutoring Shortened Assignments Content Mastery The Learning Center (Title 1 Resource Room)	Resources: Harcourt Science Time for Kids Readers: <i>International Space Center</i> <i>Magic School Bus; Inside the Solar System</i>	TA TEKS: 3.4A, B 3.7A 3.8B
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GT Modifications: Design a model of the solar system	Evaluation Methods: Teacher observations Question & Answer Worksheets Tests
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Plants and Animals

Unit Objectives:

TLW:

1. Observe and describe the habitats of organisms within an environment
2. Observe and identify organisms with similar needs that compete with one another for resources
3. Describe environmental changes in which some organisms would thrive/become ill/perish
4. Describe how living organisms modify their physical environments to meet their needs
5. Observe and identify characteristics among species that allow each to survive and reproduce
6. Analyze how adaptive characteristics help individuals within a species to survive and reproduce
7. Identify some inherited traits of plants
8. Identify some inherited traits of animals
 - Lesson on ecosystems
 - Compare and Contrast different ecosystems
 - Go on a Virtual Field Trip
 - Observe and describe an ecosystem on the playground
 - Make a Food Web
 - Circle of Life Activity

Vocabulary: Root, stem, leaf, seed, germinate, seedling, photosynthesis, chlorophyll, inherit, trait, mammal, bird, environment, ecosystem, population, community, habitat, forest, deciduous forest, tropical rain forest, coastal forest, coniferous forest, desert, salt water, fresh water, interact, producer, consumer, decomposer, food chain, energy pyramid, food web, predator, prey

Activity Type:

Hands-On
Discussion
Guided Practice
Lecture

TEKS:

3.8 A, B, C, D
3.9 A, B
3.10 A, B

Materials:

Clothes hanger
Magnifying glasses

SE Modifications:

Extra time
Peer tutoring
Shortened Assignments
Content Mastery
The Learning Center (Title 1 Resource Room)

Resources:

Harcourt Science

TA TEKS:

3.4A, B
3.7A
3.8B

GT Modifications: Compare and Contrast Ecosystems	Evaluation Methods: Teacher observations Question & Answer Worksheets Tests
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