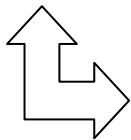


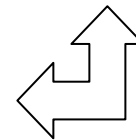
Grade 5 Science

Unit Title	5.1 The Changing Earth
Time frame	Marking period
21 st Century Themes	Critical Thinking and Problem Solving Communication and Collaboration Flexibility and Adaptability
Interdisciplinary focus and technology integration	LA - Reading for Main Ideas Technology- Internet Viewing Art – Projects, Models and Drawings

Essential Questions	↔	Big Ideas
<p>What are:</p> <ul style="list-style-type: none"> • Weathering, erosion and deposition? • Earthquakes, volcanoes and geysers? • Continental drift and Plate tectonics? • Different types of heat Transfer? 	↔	<ul style="list-style-type: none"> • There are many processes that change the Earth's surface.



Learning Targets-students will be able to;
<ul style="list-style-type: none"> • Identify how weathering, erosion and deposition change the Earth. • Explain how continental drift and plate tectonics are related to earthquakes, volcanoes, and geysers. • Explain how different types of heat transfer change the surface of the Earth.



Assessment
<ul style="list-style-type: none"> • Formal and Informal Teacher Observations • Tests / Quizzes • Diagrams and Models • Projects and Reports • Experiments

Differentiation

- Hands-On Activities
- Diagnostic Assessment
- Kinesthetic Activities
- Re-teach Activities
- Cooperative Learning
- Peer Tutoring
- Tiered Activities and Assessments

Content Standards

5.1 Science Practices

5.4. Earth System Science: The Earth operates as a set of complex and dynamic interconnected systems, and is part of all the encompassing system of the Universe

- B. History of the Earth
- D. Tectonics
- E. Energy in Earth's System

Approaches to Learning

- Observation
- Analyzing
- Inquiry skill

Learning Experiences & Suggested Activities

- Notes, Examples, Homework
- Cumulative Review Exercises
- Experiments
- Make a model of erosion with sand table
- Draw pictures and label parts

Teaching Strategies

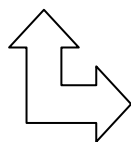
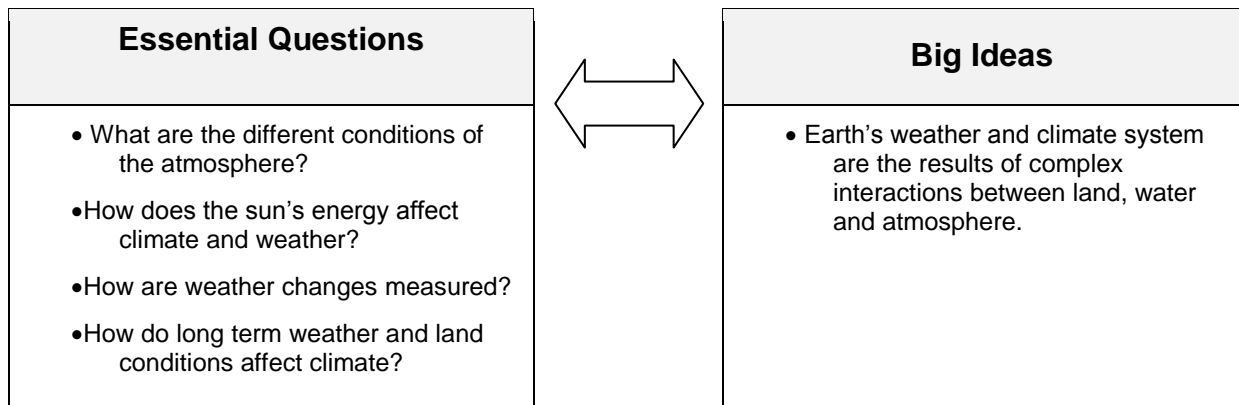
- Direct Instruction
- Differentiated Instruction
- Interdisciplinary Activities
- Cooperative Learning Activities
- Reinforcement and Remediation

Resources

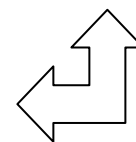
- Internet
- Videos
- Textbook/Tradebooks
- Handouts
- Models/Posters
- Maps
- Equipment

Grade 5 Science

Unit Title	5.2 Climate and Weather
Time frame	Marking period
21 st Century Themes	Critical Thinking and Problem Solving Communication and Collaboration Flexibility and Adaptability
Interdisciplinary focus and technology integration	Technology: Use of Internet Art: Diagrams, Drawings, and Models LA: Reading for facts, main ideas or specific info. S.S. : Use of maps and current events



Learning Targets-students will be able to;
<ul style="list-style-type: none"> • Students will investigate humidity, precipitation, evaporation, and condensation. • Students will investigate air pressure, thunder, lightning, clouds, hurricanes, and tornados. • Students will explore sun energy, winds, air patterns, air masses and fronts. • Students will make models and observe instruments that measure weather. • Students will identify the different climates of the world and explore conditions that affect them.



Assessment
<ul style="list-style-type: none"> • Formal and Informal Teacher Observations • Tests / Quizzes

- Reports and Projects
- Diagrams/models
- Experiments

Differentiation

- Hands-On Activities
- Kinesthetic Activities
- Re-teach and Enrichment Activities
- Cooperative Learning (Flexible Grouping)
- Peer Tutoring
- Modified Tests

Content Standards

5.1 Science Practices

5.4 Earth Systems

A. Climate and Weather

Approaches to Learning

- Observing
- Analyzing
- Inquiry Skills

Learning Experiences and Suggested Activities

- Notes, examples and homework
- Cumulative review exercises
- Students will make a model of an instrument that measure weather.
- Students will draw pictures/models of different types of clouds.

Teaching Strategies

- Direct Instruction
- Differentiated Instruction
- Interdisciplinary Activities
- Cooperative Learning Activities
- Reinforcement and Remediation
- Hands on Activities and Experiments

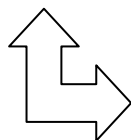
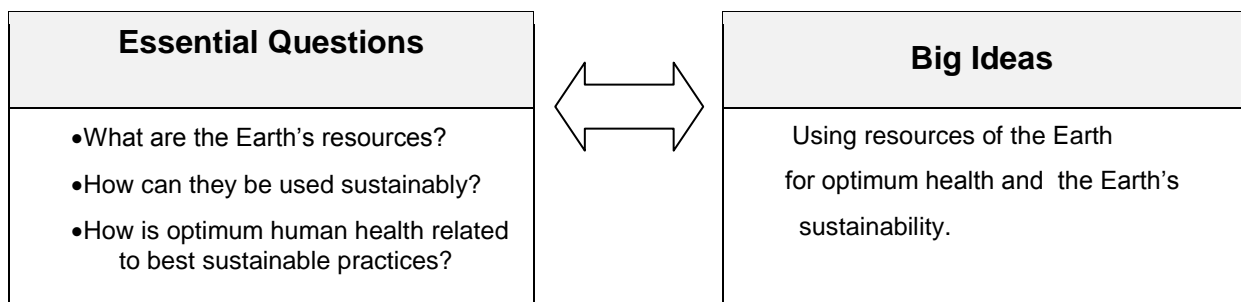
Resources

Textbook/tradebooks
 Handouts
 Posters/models
 Videos
 Internet
 Maps
 Equipment

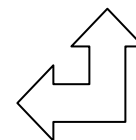


Grade 5 Science

Unit Title	5.3 Earth's Resources and Sustainable Human Interactions
Time frame	Marking Period
21 st Century Themes	Critical Thinking and Problem Solving Communication and Collaboration ICT (Information, Communications and Technology) Literacy Flexibility and Adaptability Initiative and Self-Direction
Interdisciplinary focus and technology integration	Technology: Internet viewing Art: Creating Pictures S S.: Using Maps LA : Reading and Investigating



Learning Targets-students will be able to;
<ul style="list-style-type: none"> •Students will identify the Earth's resources. •Students will explore depletion and restoration of these resources. •Students will identify practices that lead to sustainable use of resources. •Students will explore the connection of health to use of resources.



Assessment
<ul style="list-style-type: none"> • Formal and Informal Teacher Observations •Tests / Quizzes • Project / Reports

- Experiments
- Drawing /diagrams

Differentiation

- Hands-On Activities
- Kinesthetic Activities
- Re-teach and Enrichment Activities
- Cooperative Learning (Flexible Grouping)
- Peer Tutoring
- Tiered Activities

Content Standards

- 5.1 Science Practice
- 5.2 Physical Science C,D
- 5.3 Life Science C
- 5.4 Earth Systems Science C

Approaches to Learning

- Observation
- Analyzing
- Inquiry Skills

Learning Experiences and Suggested Activities

- Notes/ homework
- Cumulative Review Exercises
- Students will create charts comparing current and sustainable practices.
- Researching new practices being put into effect.

Teaching Strategies

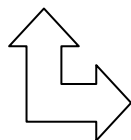
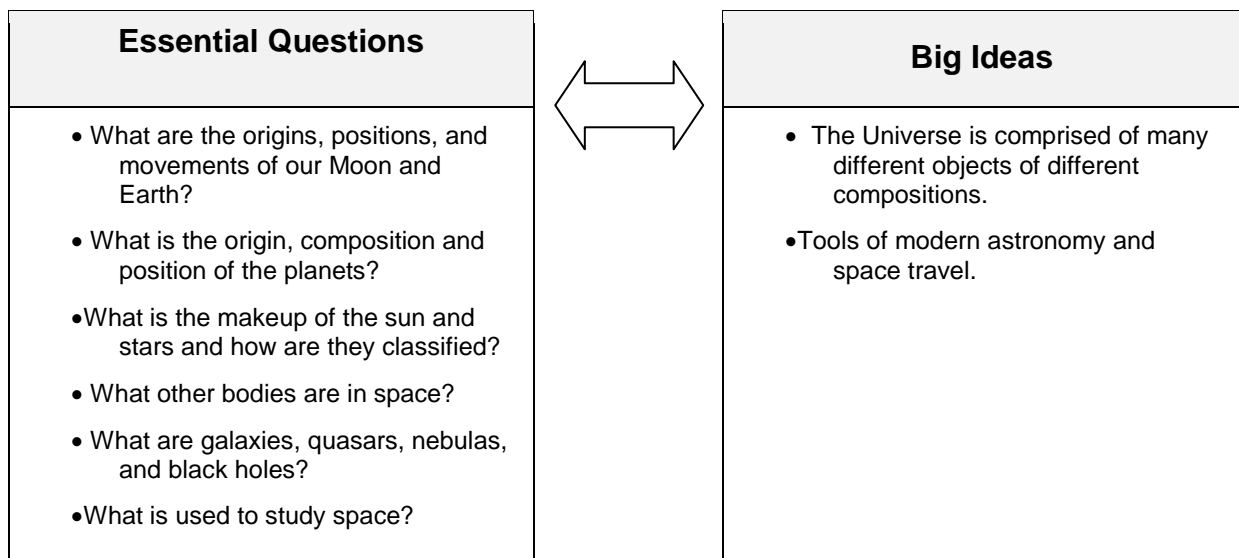
- Direct Instruction
- Differentiated Instruction
- Interdisciplinary Activities
- Cooperative Learning
- Reinforcement and Remediation

Resources

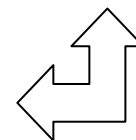
- Tradebooks
- Trips
- Internet
- Videos
- Pictures/ Posters
- Handouts
- Equipment

Grade 5 Science

Unit Title	5.4 Space
Time frame	Marking period
21 st Century Themes	Critical Thinking and Problem Solving Communication and Collaboration
Interdisciplinary focus and technology integration	Technology: Use the Internet Art: Models, Diagrams and Drawings LA: Read for Facts or Main Idea



Learning Targets-students will be able to:
<ul style="list-style-type: none"> • Review terms rotate, revolve, and axis • Study reasons for day, night, year and seasons • Study the relationship of the Earth and moon, moon phases and its makeup. • Identify and study planets in our solar system • Learn about the composition of our sun and other stars and how they are classified. • Learn about asteroids, meteors and comets. • Identify different types of galaxies. • Learn the characteristics of nebulas, quasars and black holes. • Research space travel and instruments used to collect data about space.



Assessment

- Formal and Informal Teacher Observations
- Tests / Quizzes
- Projects/ Models
- Reports

Differentiation

- Hands-On Activities
- Diagnostic Assessment (based on content /skill pre-tests)
- Kinesthetic Activities
- Re-teach and Enrichment Activities
- Cooperative Learning (Flexible Grouping)
- Peer Tutoring
- Tiered Assessments

Content Standards

5.1 Science Practices

5.4 Life Science

A. Objects in the Universe

Approaches to Learning

- Observation
- Analyzing
- Evaluation

Learning Experiences and Suggested Activities

- Notes, Examples, and Homework
- Cumulative Review Exercises
- Students will create travel brochures for a planet
- Students will draw a diagram of a comet and its parts using black paper as background and chalk for its tail.

Teaching Strategies

- Direct Instruction
- Differentiated Instruction
- Interdisciplinary Activities
- Cooperative Learning Activities
- Reinforcement and Remediation

Resources

- Textbook/ Tradebooks
- Internet
- Videos
- Models
- Pictures/Posters
- Handouts
- Equipment
- Trip