

CONTENT STANDARD 10: PHYSICAL SYSTEMS

Students will use spatial perspective to explain the physical processes that shape the Earth's surface and its ecosystems.

Performance Standard 1: Identify the types of physical systems and their characteristics that affect the earth's surface.

KINDERGARTEN

Grade Level Statement

The kindergarten students will:

- distinguish land forms from body of water on a globe or map.

Learning activities to accomplish this objective

- students will play the globe toss game.
- students will color a simple map (brown for land, blue for water).

GRADE 1

Grade Level Statement

The grade one students will:

- demonstrate knowledge of selected continents (Africa and Americas) and the body of water (Atlantic Ocean)
- locate the United States as a country and as a part of the Americas
- distinguish between rainforest, grassland and desert in Africa

Learning activities to accomplish this objective

- students will complete atlas work related to the physical relationship between Africa and the United States
- describe the land masses on maps as being continents the land masses on an atlas as being a continent
- listen to selected literature
- mapping activities (whole group) to recognize different regions (deserts, mountains)

GRADE 2

Grade Level Statement

The grade two students will:

- locate the seven continents by their configuration on a world map
- identify the four major bodies of water, Asia and China
- identify mountains, deserts, plateaus and rivers of China

Content Standard 10: Physical Systems (Cont'd)

Grade 2 (Cont'd)

Learning activities to accomplish this objective

- students will label the above.
- (see 9.6)

GRADE 3

Grade Level Statement

The grade three students will:

- locate seven continents, South American countries and bodies of water.
- locate hemispheres and equator
- locate Andes Mountains, rainforest, Pampas Region, Patagonia, Amazon River Region, Galapagos Islands

Learning activities to accomplish this objective

- students will label the above.
- see 9.6

GRADE 4

Grade Level Statement

The grade four students will:

- locate seven continents, selected European countries and bodies of water.
- locate the North, South, east and Western Hemispheres
- locate selected countries of Europe, Earth's major bodies of water, prime meridian, north and south pole, selected mountains and rivers within Europe
- demonstrate knowledge of Pangea

Learning activities to accomplish this objective

- students will label the above on a map of Europe.
- see 9.6
- create a puzzle-map showing how all of the continents fit together
- students will create riddles to show understanding of cardinal and intermediate directions

Performance Standard 2: Demonstrate how Earth-sun relationships shape climate and vegetation patterns.

KINDERGARTEN

Grade Level Statement

The kindergarten students will:

- introduced to the concepts of four season

Learning activities to accomplish this objective

- listen to and discuss selected literature
- complete writing activity related to seasons

GRADE 1

Grade Level Statement

The grade one students will:

- demonstrate knowledge of four seasons in New England

Learning activities to accomplish this objective

- see Science Curriculum

GRADE 2

Grade Level Statement

The grade two students will:

- identify the four seasons and their cycle
- demonstrate knowledge of the shortest day and the longest day

Learning activities to accomplish this objective

- see Science Curriculum

GRADE 3

Grade Level Statement

The grade three students will:

- demonstrate knowledge of earth position and its effect on the seasons
- demonstrate knowledge of seasons effect of distribution of fruits and vegetables (Brazil)

Learning activities to accomplish this objective

- see science curriculum

Performance Standard 3: Explain the factors that affect the location, distribution and association of features of the physical environment.

GRADE 4

Grade Level Statement

The grade four students will:

- demonstrate knowledge of plate tectonics
- demonstrate knowledge of how volcanic activity formed mountain ranges
- demonstrate knowledge of how rivers cause erosion
- demonstrate knowledge of how glacial activity causes erosion
- demonstrate knowledge of how earthquakes change the world

Learning activities to accomplish this objective

- read and discuss “The River” section of the reading anthology
- complete activities in Earth2U lesson 6
- Read and respond to The Earth by
- Read, discuss and complete guided reading activities on several earthquake and volcano trade books

Performance Standard 4: Define local environmental features.

KINDERGARTEN

Grade Level Statement

The kindergarten students will:

- continue to explore the Connecticut River

Learning activities to accomplish this objective

- see 9.4, field trip to Goodspeed, river area

GRADE 1

Grade Level Statement

The grade one students will:

- continue to explore the Connecticut River
- demonstrate knowledge of wooded area/forest

Learning activities to accomplish this objective

- see 9.4, walking tour around school yard

GRADE 3

Grade Level Statement

The grade three students will:

- identify falls, rocks, Eight Mile River area of Devils Hopyard
- locate features of town on map (forest, rivers, streets, farmland, etc.)
- discuss features of Salmon River

Learning activities to accomplish this objective

- field trip to Devil's Hopyard
- field trip to East Haddam town hall (View maps in town offices)

GRADE 4

Grade Level Statement

The grade four students will:

- identify the dinosaur trackway at Rocky Hill as an environmental feature
- identify ponds as environmental features
- complete the fishing brochure

Learning activities to accomplish this objective

- view the dinosaur trackway at Rocky Hill
- complete classroom activities at Dinosaur State Park

Performance Standard 5: Draw a simple map of continents and oceans.

KINDERGARTEN

Grade Level Statement

The kindergarten students will:

- be introduced to the concept of a map being a pictorial representation of a real place

Learning activities to accomplish this objective

- discuss maps as “pictures” of real places

GRADE 1

Grade Level Statement

The grade one students will:

- be introduced to the concept of a map being a pictorial representation of a real place

Learning activities to accomplish this objective

- discuss maps as “pictures” of real places

GRADE 4

Grade Level Statement

The grade four students will:

- demonstrate knowledge of map of continents and oceans

Learning activities to accomplish this objective

- draw and label continents and oceans

Content Standard 10: Physical Systems (Cont'd)

Performance Standard 6: Locate Earth's major physical and human features (including cities, countries, bodies of water, etc.).

KINDERGARTEN

Grade Level Statement

The kindergarten students will:

- demonstrate an understanding of water and land masses
- be introduced to the concept of a map being a pictorial representation of a real place

Learning activities to accomplish this objective

- see 10.1
- discuss maps as “pictures” of real places

GRADE 1

Grade Level Statement

The grade one students will:

- be introduced to the concept that maps show cities
- be introduced to the concept of a map being a pictorial representation of a real place

Learning activities to accomplish this objective

- discuss maps as “pictures” of real places
- complete map activity related to the relationship between Cairo and East Haddam on a world map

GRADE 2

Grade Level Statement

The grade two students will:

- recognize that political maps show cities
- introduce the concept of a physical map

Learning activities to accomplish this objective

- locate East Haddam, Hartford and Washington DC on a map

GRADE 3

Grade Level Statement

The grade three students will:

- recognize that physical maps show rivers, lakes and oceans

Content Standard 10: Physical Systems (Cont'd)

Grade 3 (Cont'd)

Learning activities to accomplish this objective

- use an atlas to discuss the location of the lakes, rivers and oceans in or adjacent to South America
- label a map of South America

GRADE 4

Grade Level Statement

The grade four students will:

- recognize that physical maps show land forms (rivers, lakes, oceans, mountains, elevation)
- compare physical and political maps

Learning activities to accomplish this objective

- label and locate the New England states, capitals, borders (Canada, Atlantic Ocean, Long Island Sound, New York)
- label and locate major New England features (Connecticut River, Green Mountains, White Mountains, Lake Winnipisaukee)
- label and locate physical features of Connecticut (North West hills, western uplands, Connecticut River Valley, Coastal Lowlands, Housatonic River, Connecticut River, Thames River)
- label and locate the major cities of Connecticut
- label and locate the counties of Connecticut