

Topic: Earth Science

Days: 80

Subject(s): Science

Grade(s): 6th

Key Learning:

The characteristics of Earth are constantly changing.



Unit Essential Question(s):

What forces shape the Earth's surface? How do water systems and people impact each other?



Concept:

Earth's Features

3.1.7.A, 3.1.7.B, 3.2.7.A, 3.2.7.B, 3.2.7.C, 3.5.7.A, 3.5.7.B

Concept:

Water Systems and Their Impact on People

3.1.7.B, 3.2.7.A, 3.2.7.B, 3.2.7.C, 3.5.7.D

Concept:

Weather Concepts and Atmospheric Composition

3.1.7.B, 3.2.7.A, 3.2.7.B, 3.2.7.C, 3.5.7.C, 3.7.7.B



Lesson Essential Question(s):

What are the two types of weathering? (A)

What are the agents of erosion? (A)

What are different examples of deposition? (A)

How is soil formed? (A)

What is soil's composition? (A)

Lesson Essential Question(s):

What are the characteristic features of water? (A)

What impact do these water systems have on people? (ET)

How does Earth's water systems move through the water cycle? (A)

How does gravity and the position of the moon relate to tidal movement? (ET)

Lesson Essential Question(s):

How are altitude, air pressure, and density related? (A)

What conditions/factors greatly determine air quality? (A)

How is the change in barometric pressure associated with weather patterns? (ET)

How would you describe and illustrate the major layers of the Earth's atmosphere? (A)

How do humans and the atmosphere impact each other? (ET)



Vocabulary:

mechanical weathering, chemical weathering, deposition, ice wedging, abrasion, permeable, humus, bedrock, loam, soil horizon, topsoil, subsoil, litter, decomposer, sediment, mass movement, runoff, rills, drainage basin, meander, oxbow lake, alluvial fan, groundwater, karst topography, valley glacier, continental glacier, plucking, till, moraine, kettle, longshore drift, spit, deflation, loess, erosion

Vocabulary:

irrigation, water vapor, photosynthesis, polar molecule, solution, evaporation, surface tension, solvent, condensation, capillary action, specific heat, levee, watershed, reservoir, catrophication, pore, saturated zone, water table, artesian well, unsaturated zone, impermeable, unsaturated zone, aquifer, eutrophication

Vocabulary:

atmosphere, ozone, water vapor, pollutant, smog, acid rain, density, barometer, altitude, pressure, air pressure, troposphere, ionosphere, stratosphere, mesosphere, thermosphere, exosphere, aurora borealis

Additional Information:

Attached Document(s):

Vocab Report for Topic: Earth Science

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Concept: Earth's Features

- mechanical weathering -
- chemical weathering -
- deposition -
- ice wedging -
- abrasion -
- permeable -
- humus -
- bedrock -
- loam -
- soil horizon -
- topsoil -
- subsoil -
- litter -
- decomposer -
- sediment -
- mass movement -
- runoff -
- rills -
- drainage basin -
- meander -
- oxbow lake -
- alluvial fan -
- groundwater -
- karst topography -
- valley glacier -
- continental glacier -
- plucking -
- till -
- moraine -
- kettle -
- longshore drift -
- spit -
- deflation -
- loess -
- erosion -

Concept: Water Systems and Their Impact on People

- irrigation -
- water vapor -
- photosynthesis -
- polar molecule -
- solution -
- evaporation -
- surface tension -
- solvent -
- condensation -
- capillary action -

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specific heat -
levee -
watershed -
reservoir -
catrophication -
pore -
saturated zone -
water table -
artesian well -
unsaturated zone -
impermeable -
unsaturated zone -
aquifer -
eutrophication -

Concept:

Weather Concepts and Atmopsheric Composition

atmosphere -
ozone -
water vapor -
pollutant -
smog -
acid rain -
density -
barometer -
altitude -
pressure -
air pressure -
troposphere -
ionosphere -
stratosphere -
mesosphere -
thermosphere -
exosphere -
aurora borealis -