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Science Expo 2017



Earth and Space Science

— Participants —



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Geology & Earth Science

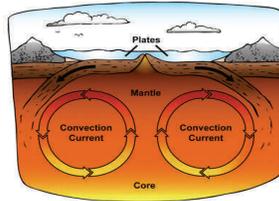
Water on Earth



Just Around the River Bend: Name three landforms created by water flowing over earth's surface.

Earthquakes

Quakes and Plates: What happens when stress and tension build up along a fault line?



Modeling Convection Currents in the Mantle:

Convection currents cycle between magma warming and _____ and magma cooling and _____.

Geology

The Break Down: Two types of weathering include chemical and _____.

Rock Detective: What type of rock did you discover?



Shake and Brake: Observe and describe how your "rocks" changed after physical weathering?

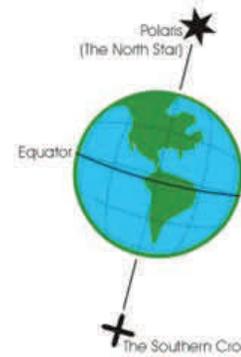
Birdseed Mining: After your mining experiment, what do you think are potential environment impacts from mining?

Space Science

Hallway upstairs

Jumping on Jupiter: Our weight changes on other planets because each planet has a different _____ which affects its _____.

Activities upstairs (Room 206)



Moon Dance: An object spinning around on its axis is a _____. An object circling around another object is an _____.

Time of the Seasons: What causes seasons on Earth?

NOTES



Space Science

Activities upstairs (Room 205)

The Fabric of Space-Time: What makes the gravity model different from the actual Solar System?

Activities upstairs (Room 204)

How Big is the Moon?: A solar eclipse happens when the moon passes between the _____ and the _____.

Pocket Solar System: Name three things that are a part of our solar system.



Cooking up Comets: Name two ingredients that make up comets.

Meteor Impact!: Name two variables that affects the size and shape of a crater.

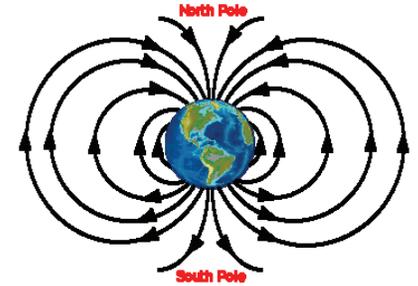
Geology & Earth Science

Geology continued

Exploring Magnetic Field Lines:

Magnets have an invisible force field

known as a _____.



TINS Magnetic Mysteries: Name two animals that are known to use magnetism to orientate their movement.

Discovering Fossils: What is evidence of past life preserved on Earth?

Fossil Formation: Oil and natural gas are also called _____.

Volcano Loco: Which volcano erupts most violently? (Circle one)

Cinder Cone

Composite Cone

Shield Cone

Renewable vs. Nonrenewable: Name three examples of renewable energy?

Weather and Climate

Air Pressure

Air is Everywhere: Air moves from areas of _____ pressure to areas of _____ pressure.



Stubborn Balloon: Does hot air or cold air take up more space?

HOT AIR or COLD AIR? (Circle one)

Cartesian Divers: (Circle One) TRUE or FALSE: Molecules of gas compress easier than molecules of liquid.

Weather

Updrafts in Action: What two things are needed to create large hail?

Cloud in a Bottle: What causes clouds to form? Circle all that apply.



Air Pressure Condensation Water Vapor

Kissing Balloons: Blowing between the balloons creates a low pressure system which brings them together and results in what type of weather?



Thermal Spires: What causes air to rise?

Weather & Climate

Weather continued

How much water is in that cloud?: (Circle one) TRUE or FALSE: All types of clouds hold the same amount of water.

Blue Skies, Partly Cloudy: The cumulonimbus cloud brings what type of weather?



Lightning Room: Lightning is an example of _____ electricity.

The Rumbling Road: Which travels faster, LIGHT (lightning) or SOUND (thunder)?

Climate

Dangerous Atmosphere: According to your data, which severe weather event do you experience the most in our climate?



Mini Greenhouse Effect: What greenhouse gas is released in this experiment?

USFS Wildfire: What are the three main desired weather conditions for safe prescribed burns operation? (circle HIGHER or LOWER for each)

Air Temperature: HIGHER or LOWER

Wind Speed: HIGHER or LOWER

Relative Humidity (%RH): HIGHER or LOWER

