**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?

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**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?

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**NOTES**

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**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 affect the size and shape of a crater.

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**Geology & Earth Science**

**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