

NOTES

—Thank you Event Sponsors—



UCDAVIS
Tahoe Environmental
Research Center



UCDAVIS
Tahoe Environmental
Research Center



Name: _____

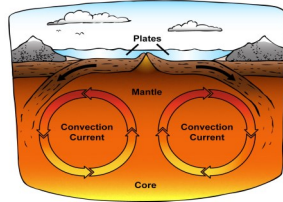
Date: _____

School: _____

Geology & Earth Science

Earthquakes

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



Shaky Sediments: _____ is when water-saturated sediment temporarily loses strength and acts as a fluid during an earthquake.

Geology

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

Rock Detective: What type of rock did you discover?



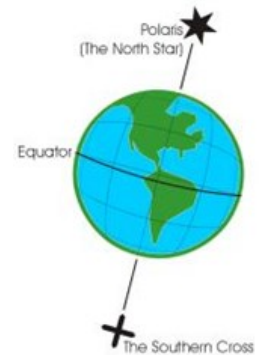
Space Science

Dark Room #1

The Fabric of Space-Time: What holds planets in orbit around the Sun?

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

Time of the Seasons: What causes seasons on Earth?



Main Room

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

Meteorite Impact!: Name two variables that affect the size and shape of a crater.

How Big is the Moon?: The Moon is much **bigger** / **smaller** than Earth and the Sun, but it can still block the Sun during a total **so-**lar / **lunar** eclipse because of perspective. (Circle one)



Space Science

Main Room

Pocket Solar System: Name the planets in our solar system in order of their distance from the Sun:

- | | |
|------------|------------|
| 1. M _____ | 5. J _____ |
| 2. V _____ | 6. S _____ |
| 3. E _____ | 7. U _____ |
| 4. M _____ | 8. N _____ |

Working in Space: Circle the reasons that astronauts must wear protective spacesuits and gloves:

- A. It is cold in space
- B. There is no oxygen in space
- C. The spacesuit provides protection



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



Exercise like an Astronaut Objects weigh more on Earth than they do in space because Earth has more _____ and _____.

Geology & Earth Science

Geology continued

Fossil Discovery and Formation: What is the evidence of past life preserved on Earth?

_____.

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

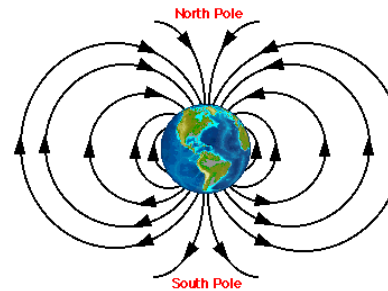
Cinder Cone

Composite Cone

Shield Cone



Magnetism



Exploring Magnetic Field Lines:

Magnets have an invisible force field known as a _____.

_____.

Dirt's not Dead: What do you call the small organisms that live in the soil?

_____.

Weather & 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

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

Air Pressure Condensation Water



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?



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

Weather & Climate

Weather continued

Lightning Room: Lightning is an example of _____ electricity.



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

Climate

Freak out! Is Tahoe weirding? According to the data, which date range experienced a higher frequency of weather and storm events?

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



Rising Sea: Is sea ice melting in the Arctic or Antarctic leading to rising sea levels?

Investigating Albedo: What absorbs more heat, dark pavement or a snowy glacier?