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UCDAVIS

Tahoe Environmental Research Center













Want more science?

Join us for our public events!

Free and family friendly!

Thursday **Mar. 12**4:00-6:00 pm

North Lake Tahoe Family Night

UC Davis Tahoe Science Center 291 Country Club Drive, Incline Village, NV

Thursday **Apr. 2** 4:00-6:00 pm

South Lake Tahoe Family Night

Lake Tahoe Community College Gymnasium One College Drive, South Lake Tahoe, CA





Science Expo 2020



Earth and Space Science





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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.

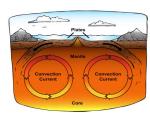
1. Canyon, channel, delta, alluvial fan, etc.

2. _____

3. _____

Earthquakes

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



Earthquakes

Shaky Sediments: Liquefaction is when wet ground temporarily loses strength and acts like a liquid during an earthquake. (Circle one)



Shake and Break Down: Two types of weathering include

chemical and _____physical

Rock Detective: What type of rock did you discover?

Pumice, granite, calcite, quartz, talc, or limestone



Space Science

The Fabric of Space-Time: What holds planets in orbit around the Sun? *Friction,* the gravity model slows down the marbles and forces them to all into the middle, but, in space, there is no friction



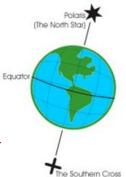
How Big is the Moon?: The Moon is much smaller than Earth and the Sun, but it can still block the Sun during a total solar lunar eclipse because of perspective. (Sircle one)

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

Answers will vary but could include any of the following: ice, frozen gases, rocks, dust, or organic material

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

Size of meteor, speed of meteor, or angle of impact



Room 206

Moon Dance: An	object	spinning	around	on its	axis	is

rota	tion	An c	bject circli	ng around	d another
object is	Of	bit			

Time of the Seasons: What causes seasons on Earth?

The tilt of the Earth's axis

2 Earth and Space Science Earth and Space Science 7



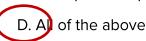
Space Science **Upstairs Hallway**

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

1. M	5 . J
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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 _

gravity which affects its

Exercising in Space: Do objects weigh more on Earth or on the Moon?



Earth

Geology & Earth Science

Geology continued

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

Fossils

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

Cinder Cone



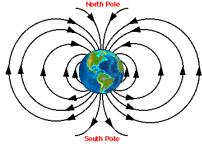
Shield Cone



Magnetism

Exploring Magnetic Field Lines: Magnets have an invisible force field known as a

Magnetic field



TINS Migration on Earth: Name one way animals know where to go while migrating.

Answers will vary



Weather & Climate

Air Pressure

Air is Everywhere: Air moves from areas of

high	pressure to areas o
low	
	pressure.



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



Cartesian Divers: Molecules of gas compress easier than molecules of liquid. (Circle one)

TRUE



Weather

FALSE

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

that apply

Condensation Air Pressure

Water Vapor

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



Stormy weather

Thermal Spires: What causes air to rise?

Heat

Weather & Climate

Weather continued

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

Very strong updrafts and super cooled water droplets



Lightning Room: Lightning is an example

static electricity.

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

LIGHT (lightning)

Climate

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

1980-1999

or

2000-2019

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

Carbon Dioxide (CO₂)

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

Arctic

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

Dark pavement