

YOU MAY ALSO LIKE:

EARTHQUAKES

READING #1

An earthquake is the sudden movement of tectonic plates that results in shaking or trembling. Tectonic plates are large pieces of the Earth's crust.

There are 7 major plates that are slowly moving on the Earth's surface. Pressure or pressure could cause tectonic plates to move, causing an earthquake. Sudden movement of tectonic plates can cause earthquakes to shake the ground.

Earthquakes can travel through the Earth's crust and upper mantle. The epicenter is the point on the surface of the Earth directly above the hypocenter is called the focus.

QUESTIONS

1. What is a hypocenter also known as?
 - A. Epicenter
 - B. Focus
 - C. Core
 - D. None of the above
2. Tectonic plates are large sections of the Earth's crust.
 - A. Core
 - B. Mantle
 - C. Atmosphere
 - D. None of the above

CLUE #1

The first scientifically studied earthquake was in...

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ESCAPE ROOM

LAYERS OF EARTH

READING #2

The Earth's mantle has an upper and lower mantle. The mantle is much thicker than the crust. The movement of the mantle can cause volcanoes to erupt.

The mantle is made up of minerals and rocks that flow under pressure. There is a large difference in temperature between the bottom and the top of the mantle.

The crust is the outermost layer. The crust is the lithosphere. The lithosphere is the uppermost layer of the Earth's crust. It is the layer that we live on. The lithosphere is made up of the crust and the upper mantle.

QUESTIONS

TRUE OR FALSE: CIRCLE THE ANSWER.

1. The Earth's mantle has an upper and lower mantle. True False
2. The Earth's mantle is much thicker than the crust. True False
3. The crust and the upper mantle make up the lithosphere. True False
4. Just below the lithosphere is the asthenosphere. True False

CLUE #2

The mantle was first explored in...

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PLANET EARTH

READING #4

Earth is mapped into 7 large land masses called continents. The seven continents include Asia, North America, South America, Africa, Europe, Australia, and Antarctica.

There are 5 major oceans which include the Atlantic Ocean, the Indian Ocean, the Pacific Ocean, the Arctic Ocean, and the Southern Ocean.

The highest point above sea level is the Mariana Trench. The Mariana Trench is the deepest part of the world's oceans. It is located in the western Pacific Ocean.

QUESTIONS

1. Earth is mapped into 7 large land masses called continents.
 - A. 5
 - B. 7
 - C. 9
 - D. 11
2. What is Earth's largest river?
 - A. Nile
 - B. Amazon
 - C. Mississippi
 - D. None of the above

CLUE #4

Of all the water on the Earth, the percent that is drinkable is...

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THINK TANK

ESCAPE ROOM

HURRICANES

READING #1

Hurricanes are also called tropical cyclones. They are large swirling storms over the warm ocean waters in tropical areas. It is a circular air mass that creates strong winds and heavy rain. Hurricanes can last days or weeks and travel over the ocean.

The difference between hurricanes, typhoons, and cyclones is the geographic location. In the Atlantic and the Caribbean, they are called hurricanes. In the Pacific, they are called typhoons. In the Indian Ocean, they are called cyclones.

QUESTIONS

1. What are hurricanes also known as?
 - A. Typhoon
 - B. Water Cycle
 - C. Tropical cyclone
 - D. None of the above

CLUE #1

Hurricanes can span over...

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THINK TANK

ESCAPE ROOM

WATER CYCLE

READING #2

The Sun's energy heats the surface of the Earth. Some of the water "evaporates" into the air, turning into a gas called "vapor." Hot water evaporates faster than cold water.

Water vapor collects in the atmosphere and forms clouds. Water vapor turns into liquid water when it rains. The Earth and enters the water cycle.

QUESTIONS

TRUE OR FALSE: CIRCLE THE ANSWER.

1. Hot water evaporates faster than cold water. True False
2. The Sun's energy heats the surface of the Earth. True False
3. Evaporation occurs when water turns from a liquid into a solid. True False

CLUE #2

The percent of water vapor in the atmosphere that comes from transpiration is...

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THINK TANK

ESCAPE ROOM



READING #3

Mercury is the closest planet to the Sun. It is the smallest, yet fastest moving planet. It is also one of five planets that is visible to the naked eye. Mercury has no moons or rings.

Venus is the second brightest object in the sky after the Sun and Moon. The planet is named for Venus, the Roman goddess of love and beauty. It is sometimes referred to as Earth's sister planet because of the similar size, location and mass.

Earth is the third planet from the Sun and was once believed to be the center of the universe. In 1543, Copernicus published his Sun-centered model of the Solar System. His theory put the Sun at the center of the solar system, not the Earth.

Mars is the second smallest planet in the Solar System. Mars was named after the Roman god of war. Mars is often referred to as the Red Planet because of the brownish-red color. Olympus Mons, the tallest mountain in the Solar System, is on Mars.

QUESTIONS

FILL IN THE BLANK

6. Mars is often referred to as the _____ Planet.

7. _____ is the closest planet to the Sun.

Earth is the _____ planet _____ on the Sun.

CLUE #3

The 'Great Red Spot' on Jupiter has been blowing on Jupiter for about 300 years...

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READING #4

Jupiter is the largest, most massive planet in the Solar System with some of the largest moons. The four larger moons, called Galilean moons, were discovered in 1610 by Galileo Galilei.

Jupiter is the sixth planet from the Sun and the fifth brightest object in the Solar System. Saturn is often referred to as the Ringed Planet. Saturn's rings are mostly composed of chunks of ice. Saturn is the flattest of the eight planets but has the strongest winds of any other planet.

Uranus was discovered in 1781 by William Herschel and named after the ancient Greek god Ouranos. It is often called an "ice giant" due to its icy mantle which surrounds its core. Uranus is the coldest planet in the Solar System.

Neptune is not visible to the naked eye and was discovered by Jean Joseph Le Verrier. Neptune has 14 known moons. The largest of these moons is Titan. Somewhat blue in color, Neptune was named after the Roman god of the sea.

QUESTIONS

9. What is the largest, most massive planet?
- A. Jupiter
 - B. Saturn
 - C. Uranus
 - D. Neptune
10. Which planet has 14 known moons?
- A. Jupiter
 - B. Saturn
 - C. Uranus
 - D. Neptune

CLUE #4

The number of moons on Jupiter...

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42 54 54 12 35 14 15

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54 31 45 31 33

FINAL CODE

Use the answers found in the completed puzzles to determine the final code!

The number found in
Puzzle #1 MINUS 40.

The number found in
Puzzle #2 MINUS 80.

The number found in
Puzzle #3 MINUS 349.

The number found in
Puzzle #4 MINUS 66.

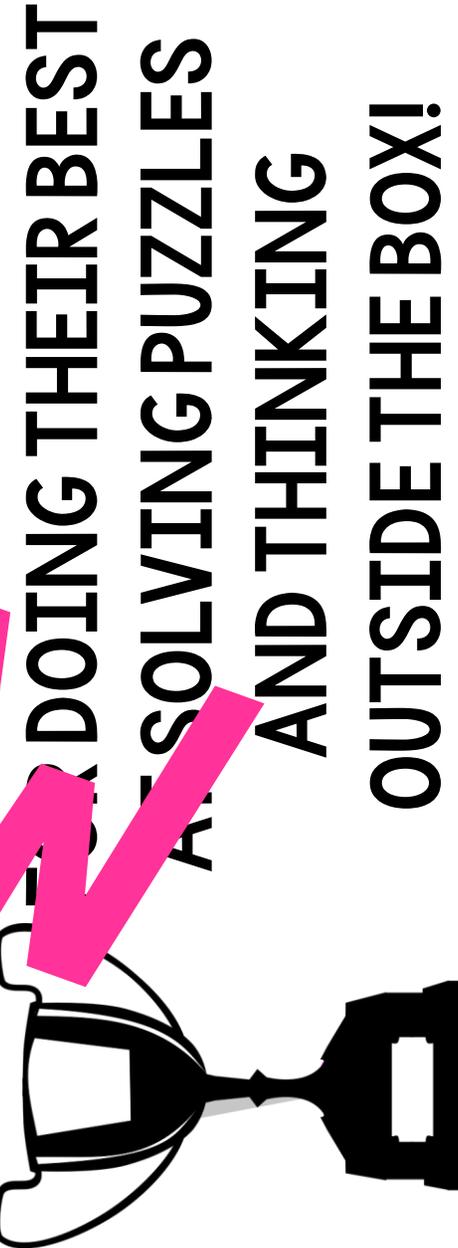
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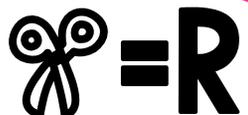
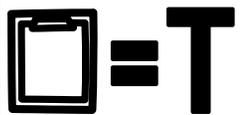
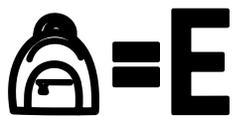
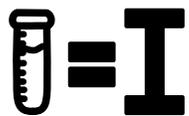
CERTIFICATE

THIS CERTIFICATE GOES TO



FOR DOING THEIR BEST
AT SOLVING PUZZLES
AND THINKING
OUTSIDE THE BOX!

DECODER #1



DECODER #2

