

# YOU MAY ALSO LIKE:

## EARTHQUAKES

**READING #1**

An earthquake is the strong, 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 sudden movement of the plates can cause earthquakes. Earthquakes can shake the ground and cause buildings to fall.

**QUESTIONS**

1. What is a hypocaust also known as?  
A. Epicenter  
B. Focus  
C. Focus  
D. None of the above

2. Tectonic plates are large sections of the Earth's crust.  
A. Crust  
B. Mantle  
C. Atmosphere  
D. None of the above

**CLUE #1**

The first scientifically studied earthquake was in...

THINK TANK 34

ESCAPE ROOM

## TORNADOES

**READING #2**

Tornadoes occur inside giant thunderstorms known as "supercells." These powerful storms when warm, moist air along the ground begins to merge with cooler, drier air. It then just a thunderstorm and some tornadoes.

Thunderstorms occur in a Cumulonimbus clouds are known as "supercells." True False

4. Most tornadoes average 150 feet in width. True False

5. Tornadoes occur inside giant thunderstorms known as "supercells." True False

**CLUE #2**

Extreme tornadoes can travel over...

THINK TANK 34

ESCAPE ROOM

## ICE AGES

**READING #4**

There are two periods within an ice age that alternates cold glacial and interglacial. A glacial period is extremely cold temperatures. The glaciers expand or get bigger. An interglacial period is a warm period where the glaciers melt or get smaller. The glaciers are constantly changing which is why we have ice ages.

1. What is a warm period where the glaciers may be melting or getting smaller?  
A. Glacial period  
B. Interglacial period  
C. Tundra period  
D. None of the above

**CLUE #4**

Agassiz discovered ice ages in...

31 42 22 32 14 31 31 33  
14 32 42 24 14 16 54 31 45 31 33

THINK TANK 34

ESCAPE ROOM

## HURRICANES

**READING #1**

A hurricane, also called a tropical cyclone, is a large rotating storm 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 a few miles before ending.

What are hurricanes called in the Indian Ocean?  
A. Typhoon  
B. Water Cycle  
C. Cyclone  
D. None of the above

**CLUE #1**

Hurricanes can spin over...

THINK TANK 34

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 enters the clouds. 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 enters the clouds.

1. The Sun's energy heats the surface of the Earth. True False

2. Hot water evaporates faster than cold water. 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...

THINK TANK 34

ESCAPE ROOM

THINK  
TANK  
too

# READING #2

Glaciers are the largest sources of fresh water on Earth. They can be divided into two categories: Alpine and Continental.

Alpine glaciers form on mountains and move down into the valleys. They are smaller than continental glaciers. Alpine glaciers will flow until they reach a point where the temperature is too warm.

Continental glaciers are ice sheets, covering larger areas than Alpine glaciers. Most of the Continental glaciers were created during the ice ages. Both Alpine and Continental glaciers require extremely cold temperatures and tons of snow.

Glaciers can be found in Iceland, Alaska, Greenland and Canada, among other places. Greenland is a giant ice cap with ice that is 2 miles thick!

The upper part of a glacier that receives the most snowfall is the zone of accumulation.

# QUESTIONS

## TRUE OR FALSE: CIRCLE THE ANSWER

3. The upper part of a glacier that receives the most snowfall is the zone of accumulation.

True      False

4. Greenland is a giant ice cap with ice that is 6 miles thick!

True      False

Alpine glaciers form on mountains.

True      False

## CLUE #2

The percent of world land area covered by glaciers is \_\_\_\_\_.

.. . . .

. - . . . - . - . - . -

# READING #3

There are many different types of glaciers. A calving glacier usually ends in a body of water. If that body of water has tides, then the glacier can also be called a tidewater glacier. When a chunk of ice breaks off of a glacier, it's called "calving." When that chunk of ice floats in the water, it's called an iceberg. Around 10,000 to 100,000 icebergs are calved each year.

Animals such as polar bears, seals and walrus use icebergs as a place to rest or hunt for food.

Polar glaciers form in an area where the temperature is always below freezing.

**Cirque glaciers form on the slopes of mountains.**

An ice cap is formed when ice completely covers an area of land. Scientists can drill into an ice cap to collect a cylinder sample of ice called an ice core. The ice core can be studied to provide a history of the earth's climate.

# QUESTIONS

## FILL IN THE BLANK

6. A calving glacier usually ends in a body of

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7. An ice \_\_\_\_\_ is formed when ice completely covers an area of land.

### 8. Cirque glaciers form on the slopes of

\_\_\_\_\_.

# CLUE #3

The Bering Glacier in Alaska spans over...



# FINAL CODE

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

The number found in  
Puzzle #1 MINUS 55.

The number found in  
Puzzle #2 MINUS 8.

The number found in  
Puzzle #3 MINUS 119.

The number found in  
Puzzle #4 MINUS 70.

FINAL 4 DIGIT CODE:

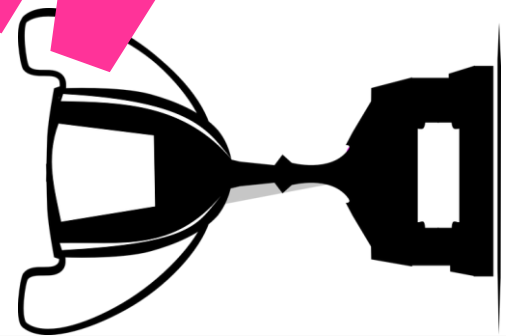
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# CERTIFICATE

THIS CERTIFICATE GOES TO

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



# DECODER #3



# DECODER #4

