

READING #1

There are four main layers of the Earth; the crust, mantle, inner core and outer core. When Earth was made billions of years ago, it was extremely hot. Over time, the outside layers cooled down and the outer crust turned hard. The inside of the Earth remained hot.

The crust is the thinnest layer of the Earth where all life forms including humans, animals, sea life and plants live.

The crust contains sections, called plates. The temperature of the crust increases with depth due to geothermal energy. The crust is the coldest layer because it is exposed to the atmosphere. The crust is made up of low-density material such as igneous, metamorphic, and sedimentary rocks.

The oceanic crust lies beneath the ocean floor. The crust in the ocean floor is around 3 to 6 miles thick. The crust on land is much thicker with an average of 20 to 30 miles thick. On land, it is called the continental crust and it forms the continents.

QUESTIONS

1. How many main layers of Earth are there?
A. 3
B. 4
C. 5
D. 6
2. Which layer contains sections or plates?
A. Mantle
B. Crust
C. Inner core
D. None of the above

CLUE #1

Of the Earth's volume, the Earth's crust is less...

--	--	--	--	--	--	--	--	--	--



--	--	--	--	--	--	--	--	--	--



READING #2

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

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

The mantle is divided into layers. The crust and the upper mantle make up the lithosphere. The lithosphere is broken up into slow moving tectonic plates.

Just below the lithosphere is the asthenosphere. The asthenosphere is weaker, hotter, deeper and under increasing pressure. The liquidity of the asthenosphere makes it very important for tectonic plate movement.

Below the asthenosphere is the mesosphere which is another strong layer.

QUESTIONS

TRUE OR FALSE: CIRCLE THE ANSWER.

3. The Earth's mantle has an upper and lower area.

True False

4. The crust and the upper mantle make up the lithosphere.

True False

Just below the lithosphere is the stratosphere.

True False

CLUE #2

The mantle was first explored in...

- - .

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

. - . . -

FINAL CODE

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

The number found in
Puzzle #1.

The number found in
Puzzle #2 MINUS 1995.

The number found in
Puzzle #3 MINUS 80.

The number found in
Puzzle #4 MINUS 1966.

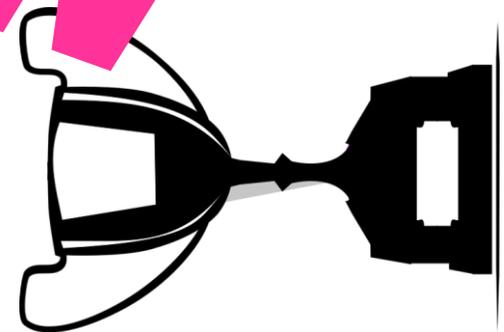
FINAL 4DIGIT CODE:

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
----------------------	----------------------	----------------------	----------------------

©Think Tank Too 2020

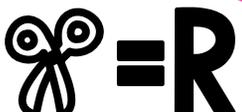
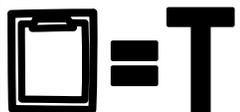
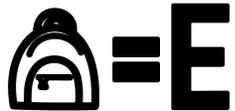
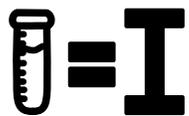
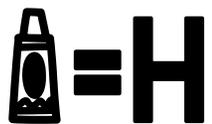
CERTIFICATE

THIS CERTIFICATE GOES TO



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

DECODER #1



DECODER #2

