

WHAT'S INCLUDED?

- ✓ READING PASSAGE
- ✓ 5 STATIONS
- ✓ TEACHER GUIDE
- ✓ ANSWER KEY
- ✓ STUDENT DIRECTIONS
- ✓ TEXT MARKING OPTION
- ✓ PROP SIGNS

STATION 1: FILL IN THE BLANK

Use your reading passage to determine the missing words in the paragraph below. Each missing word has a corresponding NUMBER. The 4-digit code for this station will be the NUMBER for each missing word, in the same order in which they appear in the paragraph. Then, record the clue LETTER on your answer sheet.

STATION 2: PARAGRAPHS

First, number ALL the paragraphs on your reading passage. Then, read each statement below and determine which paragraph NUMBER the statement can be found in. Paragraph numbers MAY be used more than one time or not at all. Follow the directions below to reveal the 4-digit code and letter clue.

STATION 3: TRUE OR FALSE

Read each statement below and determine if it is true or false. If the statement is true, color the coin on YOUR answer sheet that corresponds with that question. If the statement is false, cross out that coin value. When you are finished add the TOTAL of ALL TRUE coin values to reveal your letter clue. One digit of the code has been provided for you. If the total is 625, a 6 would go in the first box, the 2 in the second box and so on.

STATION 4: COMBINATION

Use your reading passage to determine the combination to the 4-digit lock for this station. You're going to have to use your critical thinking skills and do a tiny bit of math. Pay attention because the "clues" below are NOT in order. There is room on your answer sheet to do the math.

STATION 5: MULTIPLE CHOICE

Answer each multiple-choice question below. Then, count the number of times you used each letter answer (ABCD) to reveal your 4-digit code. Letters may be used more than once or not at all. If a letter option is not used, put a zero in that box on your answer sheet.

ANSWER RECORDING SHEET

Record your answers for each station on this sheet. Then, use the directions below to determine final 4-digit ALPHA code. Ex: HBDR

STATION CODES

LETTER CLUE

STATION 1	→	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	CODE	<input type="text"/>
-----------	---	----------------------	----------------------	----------------------	----------------------	------	----------------------

A	B	C	D	E	F	<input type="text"/>
---	---	---	---	---	---	----------------------

STATION 2	→	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	CODE	<input type="text"/>
-----------	---	----------------------	----------------------	----------------------	----------------------	------	----------------------

ENTER

1

2

3

TEACHER DIRECTION

- 1 Print the reading passage found on [pages 5-6](#) for EACH (front and back).
- 2 Print the answer recording sheet on [page 12](#) for each student group of students.

RECAP: Print pages 5, 6, and 12 for students.

STATION

5

BLUE

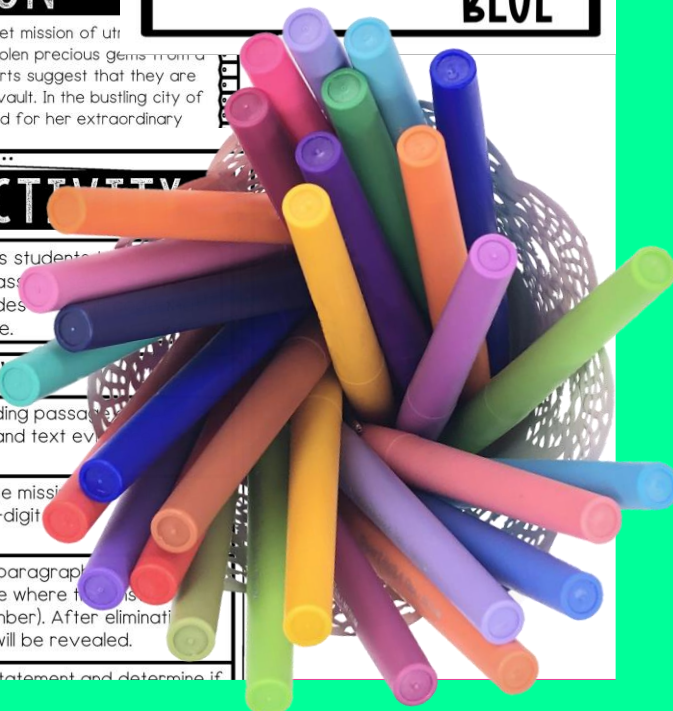
THE MISSION

You have been assigned a top-secret mission of utmost importance. A notorious thief has stolen precious gems from a prominent lady, and intelligence reports suggest that they are hidden in a heavily guarded secret vault. In the bustling city of Oakville, Lady Victoria was renowned for her extraordinary

ABOUT THIS ACTIVITY

The reading passage in this packet allows students to practice their comprehension skills after reading the passage. Students will be searching for evidence. Each station includes a question that will reveal a letter clue.

	OVERVIEW
READING PASSAGE	Students will use the reading passage at each station seeking answers and text evidence.
STATION 1	Students will determine the missing word in the paragraph to reveal a 4-digit code.
STATION 2	Students will number the paragraphs in the reading passage to determine where the missing words can be found (paragraph number). After eliminating the incorrect numbers, a 4-digit code will be revealed.
STATION 3	Students will read each statement and determine if it is true or false.



5 STATIONS

STATION 5: MULTIPLE CHOICE

Answer each multiple-choice question below. Then, count how many times you used each letter answer (ABCD) to reveal the code. Letters may be used more than once or not at all. If an option is not used, put an X in that box on your answer sheet.

1. What is the average depth of the continental crust? How many parts is the Earth made of?

A. 21 miles
B. 31 miles
C. 41 miles
D. Over 50 miles

A. 2
B. 4
C. 6
D. 8

2. What is oceanic crust? Name the scientist who discovered the mantle.

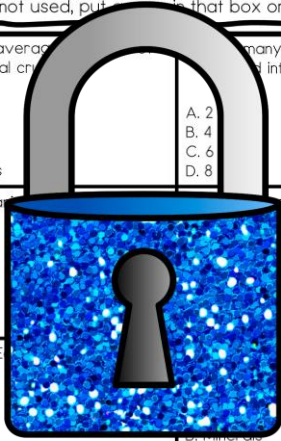
A. Sima
B. Mansa
C. Sial
D. Magma

3. What is the Earth's inner core made of? What is the mantle composed of?

A. Crust
B. Mantle
C. Inner core
D. Outer core

A. Magma
B. Molten rock
C. Melted iron
D. All of the above

Count how many times you used each letter answer (A, B, C, D) to determine the 4-digit code and record it on your answer sheet.



ANSWER RECORDING SHEET

Record your answers for each station on this sheet. Then, use the directions below to determine final 4-digit ALPHA code. Ex: HBDR

STATION	STATION CODES	LETTER
STATION 1	→ [] [] [] [] [] CODE #	
STATION 2	A B C D E F	
STATION 3	→ [] [] [] [] [] CODE #	
STATION 4	→ [] [] [] [] [] CODE #	
STATION 5	→ [] [] [] [] [] CODE #	

Do your math in this area:

1 2 3 4 5 6

A# [] B# [] C# [] D# []

STATION 4: COMBINATION

Use your reading passage to determine the combination to the 4-digit lock for this station. You're going to have to use your critical thinking skills and do a tiny bit of math. Pay attention because the "clues" below are NOT in order. There is room on your answer sheet to do the math.

1. The LAST number of the lock is the year the inner core was discovered. Magma is 20% of the Earth's mass.

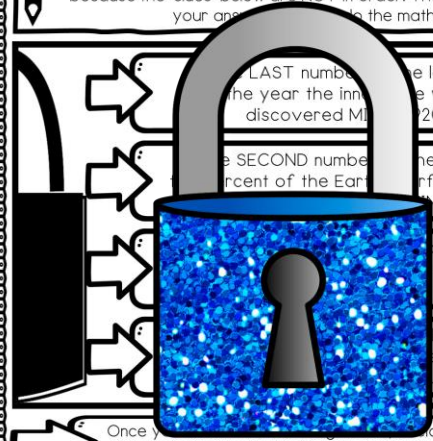
2. The SECOND number of the lock is the percent of the Earth's surface on top of the plates. The lock is 39% of the Earth's surface.

3. The third number of the lock is the number of plates. The lock is 5% of the Earth's surface.

4. The fourth number of the lock is the number of the Earth's layers. The lock is 4% of the Earth's surface.

Once you determine the 4-digit code, decide if the code uses all EVEN #s, all ODD #s or a combination of both.

ALL EVEN ALL ODD COMBO



STATION 1: FILL IN THE BLANKS

Use your reading passage to determine the missing word in each paragraph below. Each missing word has a corresponding NUMBER. The 4-digit code for this station will be the NUMBER of each missing word in the order in which they appear in the paragraph. The code will be recorded on your answer sheet.

1. The inner core is mostly solid iron and nickel. It is the hottest part of the Earth. The temperature is extremely high, about 5,000 degrees Celsius. The pressure is also very high, about 3.6 million atmospheres.

2. The outer core is mostly liquid iron and nickel. It is the second hottest part of the Earth. The temperature is about 4,000 degrees Celsius. The pressure is about 1.3 million atmospheres.

3. The mantle is the middle layer of the Earth. It is made up of silicate rocks rich in iron and magnesium. The temperature is about 1,000 to 2,000 degrees Celsius. The pressure is about 1 million atmospheres.

4. The crust is the outermost layer of the Earth. It is made up of solid rocks. The temperature is about 500 to 1,000 degrees Celsius. The pressure is about 100,000 atmospheres.

5. The lithosphere is the uppermost part of the crust. It is the rigid upper part of the upper mantle. It is broken into tectonic plates.

6. The asthenosphere is the part of the upper mantle below the lithosphere. It is hotter and more plastic than the lithosphere. It is the source of magma.

7. The core-mantle boundary is the boundary between the core and the mantle. It is located at a depth of about 2,900 kilometers.

8. The core-mantle boundary is the boundary between the core and the mantle. It is located at a depth of about 2,900 kilometers.

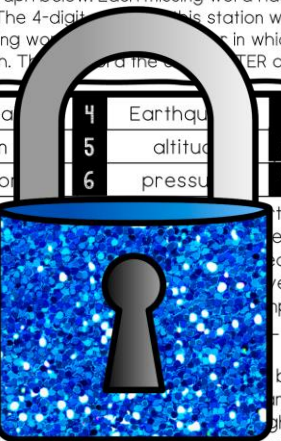
9. The core-mantle boundary is the boundary between the core and the mantle. It is located at a depth of about 2,900 kilometers.

10. The core-mantle boundary is the boundary between the core and the mantle. It is located at a depth of about 2,900 kilometers.

Once you determine the 4-digit code, decide if the code uses all EVEN #s, all ODD #s or a combination of both.

ALL EVEN ALL ODD COMBO

B H M



STATION 3: TRUE OR FALSE

Read each statement below and determine if it is true or false. If the statement is true, color the coin on YOUR answer sheet with that question. If the statement is false, cross out that coin. Once you are finished coloring the coins, use the TRUE coin values to determine the 4-digit code. One digit of the code will be provided for you. The other three digits will be determined by the first box, the second box, and the third box.

A. Tectonic boundaries are not always parallel to each other. (75)

B. Below the asthenosphere is the lithosphere. (25)

C. The mantle is the middle layer of the Earth. (50)

D. The crust is the outermost layer of the Earth. (100)

E. The core is the innermost layer of the Earth. (75)

F. The core is made of iron and nickel. (25)

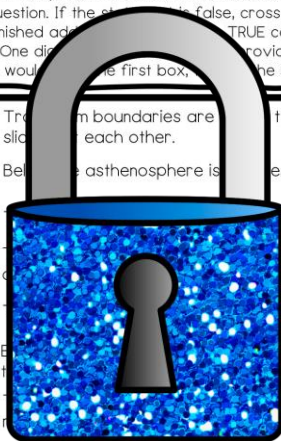
G. The core is the hottest part of the Earth. (50)

H. The crust is the Earth's coldest layer because it is exposed to the atmosphere. (100)

After shading the coins on your answer sheet, use the TRUE statements to get the final total.

275 400 300

G D M



STATION 2: PARAGRAPHS

First, number ALL the paragraphs on your reading passage. Then, read each statement below and determine which paragraph NUMBER the statement can be found in. Paragraph numbers MAY be used more than once or not at all. Follow the directions below to determine the 4-digit code and letter clue.

A. The layer of Earth just below the lithosphere is known as the asthenosphere.

B. As the Earth spins, the iron inside the core moves around.

C. On land, the crust is broken into tectonic plates.

D. In 1929, the inner core was discovered by Inge Lehmann.

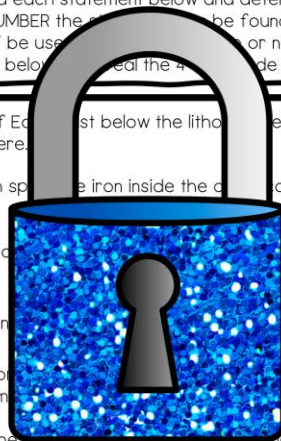
E. The outer core is made of liquid iron and nickel and is made up of liquid metal.

F. Over time, the outer layer of the core cooled and the outer crust turned hard.

1. ELIMINATE the highest and lowest used paragraph numbers and record the remaining 4-digit code on your answer sheet. 2. Decide which paragraph number was NOT used as a CODE answer.

NO 2 NO 6 NO 4

L C W



STATIONS

ABOUT THIS ACTIVITY

The reading passage in this packet allows students to work on comprehension skills after reading the passage several times searching for evidence. Each station includes a 4-digit code that will reveal a letter clue.


OVERVIEW

READING PASSAGE	Students will use the reading passage at EACH station seeking answers and text evidence.
STATION 1	Students will determine the missing words in the paragraph to reveal a 4-digit code.
STATION 2	Students will number the paragraphs and browse the passage to determine where the answers can be found (paragraph number). After eliminating numbers, a 4-digit code will be revealed.
STATION 3	Students will read each statement and determine if it is true or false. They will then ADD all TRUE values to find the 4-digit code.
STATION 4	Students will do some basic math here, read the passage to find the answers and then determine the 4 digit code.
STATION 5	Students will answer 6 multiple choice questions which lead them to a 4 digit code based on the number of times they used each "ABCD" answer.
TEXT MARKING	OPTIONAL: A color code chart is included in case you want students to mark the text, citing evidence of where they found their answers. (This will increase completion time)

© Think Tank

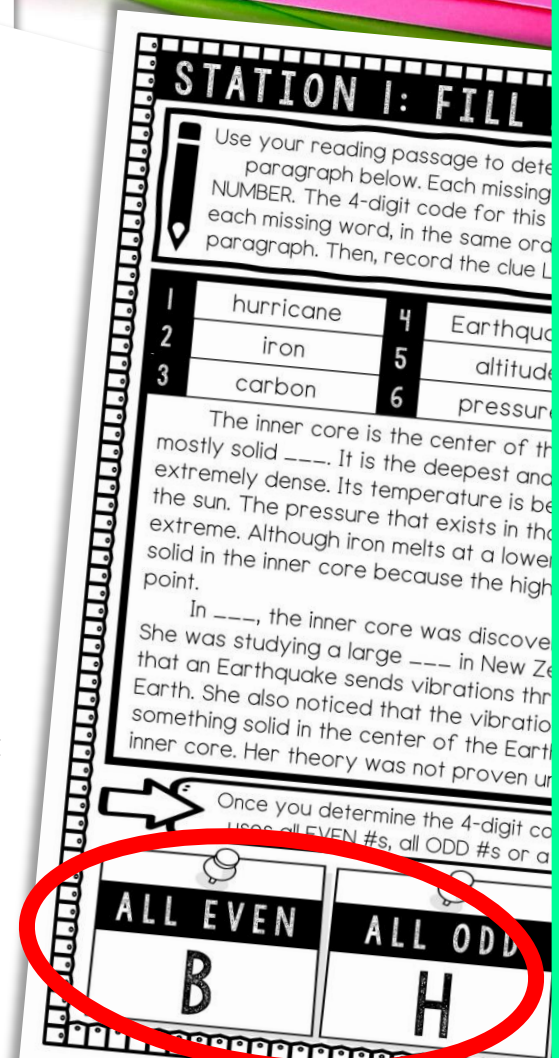
**STUDENTS WILL
USE THE SAME
READING
PASSAGE AT
EACH STATION
SEEKING
ANSWERS AND
TEXT EVIDENCE.**

HOW IT WORKS



ENGAGING READING
COMPREHENSION PRACTICE!

- 1 Students work individually (or in pairs) and visit 5 stations, answer questions, decipher a 4-digit code at each station and grab a "letter" clue for the final alpha code.
- 2 Students will answer the questions (found directly in the passage) on their own recording sheet. Students will have to revisit their reading passage several times at EACH station skimming for answers.



STATION 1: FILL

Use your reading passage to determine the missing word in each paragraph below. Each missing word is represented by a NUMBER. The 4-digit code for this station is _____. Write each missing word, in the same order as the numbers, in the same paragraph. Then, record the clue letter in the grid below.

1	hurricane	4	Earthquake
2	iron	5	altitude
3	carbon	6	pressure

The inner core is the center of the Earth. It is mostly solid _____. It is the deepest and most extremely dense. Its temperature is the highest in the sun. The pressure that exists in the inner core is extreme. Although iron melts at a lower temperature, it is solid in the inner core because of the high pressure.

In _____, the inner core was discovered. She was studying a large _____ in New Zealand that an Earthquake sends vibrations through the Earth. She also noticed that the vibrations were something solid in the center of the Earth. Her theory was not proven until _____.

Once you determine the 4-digit code, use all EVEN #s, all ODD #s or a combination of both.

ALL EVEN	ALL ODD
B	H

BENEFITS

- ✓ STATIONS AND MOVEMENT
- ✓ CLOSE READING
- ✓ COMPREHENSION SKILLS
- ✓ SECRET CODES
- ✓ CITING EVIDENCE
- ✓ CRITICAL THINKING
- ✓ PRINT AND GO
- ✓ ACTIVE LEARNING
- ✓ CROSS-CURRICULAR
- ✓ HIGHLY ENGAGING
- ✓ NO LOCKS NEEDED
- ✓ NO SILLY ENVELOPES TO STUFF
- ✓ NO ODD SHAPES TO CUT OUT



Everything a teacher dreams of wrapped up into one FUN and engaging activity!

USE FOR:



ANTICIPATORY SETS



UNIT REVIEW



EARLY FINISHERS



STATIONS



REWARD ACTIVITY



CENTERS



SUB PLANS



PARTNER WORK



ENRICHMENT

