

# WATER CYCLE

## CUBE CODE

freshwater come

A. Oceans  
B. On land  
C. All 3 states of matter  
D. All of the above

What is the process of water vapor becoming a liquid called?

A. Sublimation  
B. Condensation  
C. Transpiration  
D. Evaporation

What percent of the US population uses groundwater as drinking water?

A. More than 50%  
B. More than 70%  
C. More than 90%  
D. More than 95%

What is the water cycle also known as?

A. Hydroponic cycle  
B. Hydrologic cycle  
C. Haptic cycle  
D. None of the above

A  B  C

the percent of water the human body is made up of MINUS 58.

The FIRST number of the lock is the average number of days the entire water cycle takes MINUS 2.

The THIRD number of the lock is the percent of water vapor in the atmosphere that comes from transpiration MINUS 2.

**STATION 2:**

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. Lastly, eliminate ANY answer where the answer was found in an EVEN numbered paragraph, leaving only ODD numbers as your final code (in the order of questions). Paragraph numbers MAY be used more than one time or not at all.

A  B  C

decrease  
increase  
gas

same  
opposite  
solid

hail  
liquid  
snow

As the water rises higher into the atmosphere, because of the cool temperatures, clouds that continue to form are the result of the process of

it turns back to collect water vapor to condense and evaporate the water on Earth.

**STATION 3:**

Read each statement below and determine if it is true or false. If the statement is true, color or shade the coin that corresponds to the question. If the statement is false, cross out that coin value. After you are finished add the TOTAL of ALL TRUE coin values. The code has been provided for you. If the total is 625, a 6 in the first box, the 2 in the second box and so on.

A 75  
B 25  
C 50

A. Sleet is a mixture of rain and snow.  
B. The water you drink today could be as old as 4.4 billion years.  
C. The process of water vapor becoming a liquid is called percolation.  
D. Hot water evaporates easier than cold water.  
E. The Sun's energy heats the surface of the Earth.

E 100  
F 75  
G 50

**4 DIGIT CODE**

A 75  
B 25  
C 50  
D 100

A. The Constitution is organized into seven different parts called Articles.  
B. The Constitutional Convention was held in Boston, Massachusetts.  
C. The 3 branches include the Legislative, Executive and Parliament Branch.  
D. The first ten amendments came in 1791 and are called the Bill of Rights.  
E. Before the Constitution, a strong federal government held the states together.  
F. The opening part of the Constitution is called the Preamble.  
G. George Washington was known as the "Father of the Constitution."  
H. The U.S. Constitution is the oldest government document still in use today.

A  B  C  D

**4 DIGIT CODE**

**WATER CYCLE**

The water that was present on the Earth when dinosaurs were alive is the same water that exists today. Water is made up of two elements called hydrogen and oxygen. Its chemical formula is H<sub>2</sub>O. Water can be found in oceans, on land, in the atmosphere, and in all three states of matter: solid, liquid, and gas. The water on Earth travels through a path known as the water cycle or the hydrologic cycle. Without the water cycle, there would be no life on Earth.

Liquid is the state that most water is found in. Oceans, lakes, ponds, and other bodies of water all contain the liquid form. Oceans contain about 96.5% of Earth's liquid water. Solid ice is found in snow, glaciers, and at the North and South Poles. Finally, the atmosphere contains about 0.001% of Earth's liquid water.

A  B  C  D  E  F

**ELIMINATE**

**WATER CYCLE**

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A  B  C  D  E  F  G  H



### STATION 1:

Use your reading passage or deductive reasoning skills to determine the missing words in the paragraph below. Each missing word has a corresponding NUMBER. The 4-digit code will be the NUMBER of each missing word in the same order in which they appear in the paragraph.

### STATION 2:

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. Lastly, eliminate ANY answer where the answer was found in an ODD numbered paragraph, leaving only EVEN numbers as your final code (in the order of questions). Paragraph numbers MAY be used more than one time or not at all.

### STATION 3:

Read each statement below and determine if it is true or false. If the statement is true, color or shade the coin 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. 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:

Use your reading passage to determine the combination to the 4-digit lock. 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.

### STATION 5:

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

### STATION 6:

Reread the passage and write the main idea in your own words. Then, add TWO supporting details that back up your main idea or topic sentence.

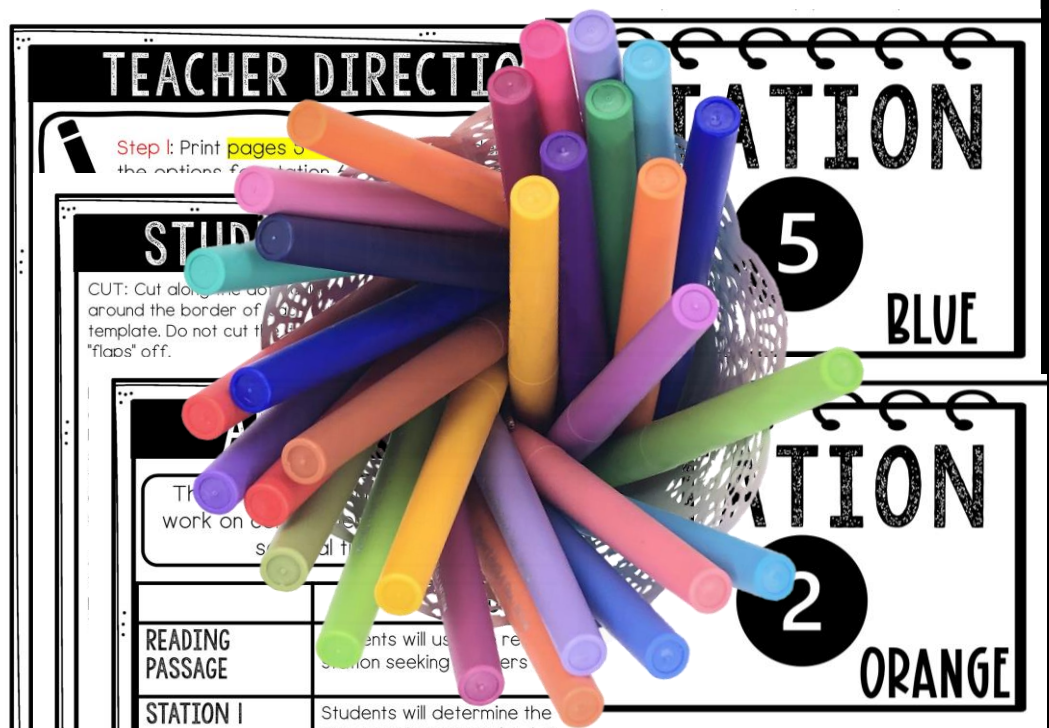
# STATION

# 1

# RED

## WHAT'S INCLUDED?

- READING PASSAGE
- 6 STATIONS
- TEACHER GUIDE
- STATION CARDS
- ANSWER KEY
- STUDENT DIRECTIONS
- TEXT MARKING OPTION
- ALTERNATE STATION
- ASSEMBLY TIPS



# 6 STATIONS

## STATION 1:

Use your reading passage or deductive reasoning to determine the missing words in the paragraph below. The missing word has a corresponding NUMBER. The 4-digit code will be the NUMBER of each missing word in the same order in which they appear in the paragraph.

1	decrease	4	same	7	hail
2	increase	5	opposite	8	liquid
3	gas	6	solid	9	snow

As the water rises higher into the atmosphere it turns into a gas. The temperature is cool. The process of water vapor becoming a liquid is called condensation. The process of water vapor becoming a solid is called evaporation. The process of water vapor becoming a solid is called evaporation. The process of water vapor becoming a solid is called evaporation.

STATION

1

RED

## STATION 6:

Reread the passage and write the main idea in your own words. Then, add TWO supporting details that back up your main idea or topic sentence.

STATION

6

## STATION 4:

Use your reading passage to determine the combination to the 4-digit lock. 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.

The LAST number of the lock is the percent of water that goes into the atmosphere from evaporation MINUS 83.

The SECOND number of the lock is

STATION

4

GREEN

4 DIGIT CODE

## STATION 5:

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

Where can freshwater come from?

- A. Ice
- B. Glaciers
- C. Snow
- D. All of the above

Where can water be found on Earth?

- A. Oceans
- B. On land

Oceans contain what percent of Earth's water?

- A. 68.3%
- B. 78.9%
- C. 88.2%
- D. 96.5%

What is the most common source of drinking water in the US?

- A. Hydroponic cycle
- B. Hydrologic cycle
- C. Haptic cycle
- D. None of the above

- A. More than 50%
- B. More than 62%
- C. More than 75%
- D. More than 90%

STATION

5

BLUE

A  B  C  D

## STATION 3:

Read each statement below and determine if it is true or false. If the statement is true, color or shade the coin that corresponds to the statement. If the statement is false, do not color or shade the coin. One coin has been colored to show you how to do it. The first box is for the first box.

STATION

3

YELLOW

A  
75

B  
25

C  
50

D  
100

- C. The process of water vapor becoming a liquid is called precipitation.
- D. Hot water evaporates easier than cold water.
- E. The Sun's energy heats the surface of the Earth.
- F. Sublimation takes water from the surface to the atmosphere.
- G. The largest use of groundwater is to irrigate crops.
- H. The water cycle is also known as the hydrologic cycle.

4 DIGIT CODE

## STATION 2:

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. Lastly, eliminate ANY answer where the answer was found in an EVEN numbered paragraph, leaving only ODD numbers as your final answer. The final answer is the sum of the remaining paragraph numbers.

STATION

2

ORANGE

A

B

C

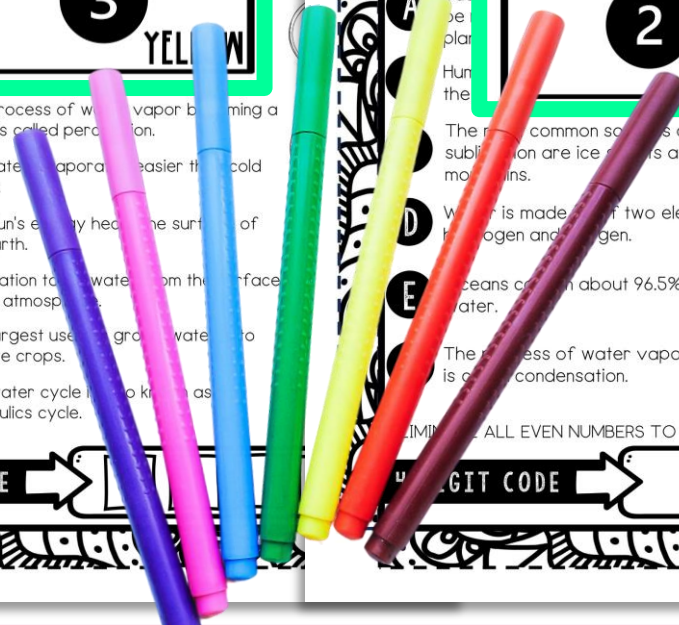
D

E

- The most common sources of water from the atmosphere are ice caps and ice caps on mountains.
- Water is made of two elements called hydrogen and oxygen.
- Approximately 96.5% of Earth's liquid water is in the oceans.
- The process of water vapor becoming a liquid is called condensation.

ELIMINATE ALL EVEN NUMBERS TO DETERMINE THE FINAL CODE.

4 DIGIT CODE



# SAMPLE CUBE



# STATIONS

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 EVEN 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 "answer".
STATION 6	Option 1: Main idea writing activity Option 2: Color and add topic
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.

**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 6 stations, grabbing one side of their cube at each station.

2

Students will answer the questions (found directly in the passage) on their cube sheet before assembly. Students will revisit their reading passage at EACH station!

3

Students will reveal 4-digit codes to move on to the next station. When they finish all stations, they can color and assemble their cube.

**STATION**

Read each statement below and determine if the statement is true, color or shade the corresponding question. If the statement is false, cross it out. When you are finished add the TOTAL of ALL TRUE statements. A code has been provided for you. If the total is 75, the code is 75. If the total is 100, the code is 100.

**A**  
75

A. Sleet is a mixture of rain and snow.

**B**  
25

B. The water you drink today is as old as 4.4 billion years.

**C**  
50

C. The process of water vapor turning into liquid is called percolation.

**D**  
100

D. Hot water evaporates easier than cold water.

**E**

E. The Sun's energy heats the surface of the Earth.

**F**

F. Sublimation takes water from the ground to the atmosphere.

**G**

G. The largest use for groundwater is to irrigate crops.

**H**

H. The water cycle is also known as the hydrologic cycle.

**4 DIGIT CODE** →

# COMBINATION



**Each Cube Code is a winning combination of:**

- stations and movement
- close reading
- comprehension skills
- coloring and stress relief
- secret codes
- cut and paste
- citing evidence
- critical thinking

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

# BENEFITS



THINK OUTSIDE THE BOX!

-  ANTICIPATORY SETS
-  UNIT REVIEW
-  EARLY FINISHERS
-  STATIONS
-  SUB PLANS
-  PARTNER WORK
-  ENRICHMENT

-  HANDS-ON
-  CROSS-CURRICULAR
-  HIGHLY ENGAGING

