

SOLAR SYSTEM

CUBE CODE

Which planet is NOT known as the 'Red Planet'?

Which planet is closest to the sun?

Which planet was discovered by Jean Joseph Le Verrier?

Between what two planets do you find the asteroid belt?

Aside from planets, what else is part of the solar system?

A. Mercury
B. Venus
C. Earth
D. Mars

A. Mercury
B. Venus
C. Earth
D. Mars

A. Mercury and Venus
B. Mars and Earth
C. Venus and Earth
D. None of the above

A. Dust
B. Gas
C. Asteroids
D. All of the above

A B C

The number of major planets that revolve around the sun MINUS 1.

The FIRST number of the lock is the number of known moons Neptune has MINUS 12.

The THIRD number of the lock is the number of planets known as terrestrial planets MINUS 4.

flattest

Blue

Red

smallest

Makemake

Uranus

Green

Pluto

Titan

--- was considered the ninth planet in our solar system. Because it is so small to be seen since 2005, scientists are still considering it. However, some scientists believed it was the furthest planet and also the furthest planet found. However, they found other planets. However, they found other planets. However, they found other planets.

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

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.

NAME: _____

4 DIGIT CODE

A B C D

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. 75
B. 25
C. 50
D. 100

E. 100
F. 75
G. 50
H. 25

A B C D

4 DIGIT CODE

SOLAR SYSTEM

The solar system is made up of the sun and the objects that are in motion around it. There are eight major planets that revolve around the sun: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune. Many other smaller planets, moons, comets, asteroids, dust, and gas are a part of the solar system as well.

The sun is a star at the center of the solar system. It is the largest object, and everything revolves around it. It is extremely hot with temperatures reaching over 15 million degrees Fahrenheit. The heat and energy from the sun is what the earth and its inhabitants need in order to survive. The next largest objects are the planets. These planets are the next largest objects in the solar system.

A. The outer planets have more moons than the inner planets.
B. Astronomers believe that comets start in the Kuiper belt or the Oort cloud.
C. Although small part...
D. The sol... the ob...
E. The s... syste...
F. Urar with

ELIMINAT

A. Neptune is visible to the naked eye and was discovered by Copernicus.
B. The Oort cloud is the farthest part of the solar system.
C. Between Mercury and Venus is the asteroid belt.
D. Some dwarf planets include Eris, Ceres, Haumea, and Makemake.
E. The Milky Way is made up of billions of stars, planets, moons, comets, asteroids, dust, and gas. Some of the largest objects that can't be seen by humans are made up of billions of stars, planets, moons, comets, asteroids, dust, and gas. Some of the largest objects that can't be seen by humans are made up of billions of stars, planets, moons, comets, asteroids, dust, and gas.

A. 75
B. 25
C. 50
D. 100
E. 100
F. 75
G. 50
H. 25

A B C D



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.

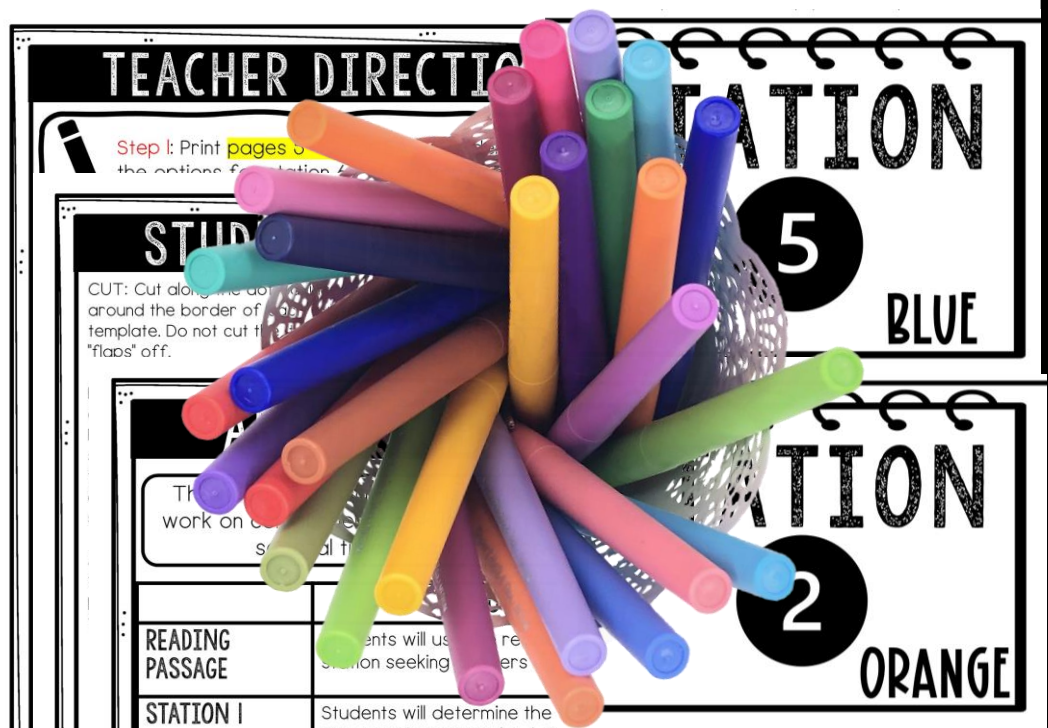
STATION

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	flattest	4	smallest	7	Green
2	Blue	5	Makemake	8	Pluto
3	Red	6	Uranus	9	Titan

... was once considered the ninth planet in our solar system and also the smallest. It is too small since 2006. Scientists are similar to those who considered Haumea, Makemake, and Eris, Ceres. Planet because of the brownish-red color. Olympus Mons, the tallest mountain in the solar system, is on Mars. Jupiter

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.

MAIN IDEA

STATION

6



SUPPORTING DETAIL #2

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 number of known moons Saturn has MINUS 60.

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.

Which planet is NOT known as a gas giant?

- A. Saturn
- B. Venus
- C. Uranus
- D. Neptune

On what planet can you find Olympus Mons?

- A. Mercury
- B. Venus

What planet is named after a Roman god?

- A. Uranus
- B. Neptune
- C. Pluto
- D. Saturn

Aside from Earth, which planet is part of the inner solar system?

- A. Dust
- B. Gas
- C. Asteroids
- D. All of the above

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 it. One coin has been colored. The 4-digit code has been revealed. The first box is empty.

STATION

3

YELLOW

A
75

B
25

C
50

D
100

- C. Between Mercury and Venus is the asteroid belt.
- D. Some dwarf planets include Eris, Haumea, and Makemake.
- E. The Milky Way is made up of billions of stars and objects that can't be seen by humans.
- F. These first six planets were composed of mostly rocks and metal, known as terrestrial planets.
- G. Comets often have a visible "tail" as they orbit the sun.
- H. Jupiter has some of the largest moons in the solar system.

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 possible answers. The final 4-digit code is the sum of the remaining numbers.

STATION

2

ORANGE

A

B

C

D

E

F

G

H

I

J

K

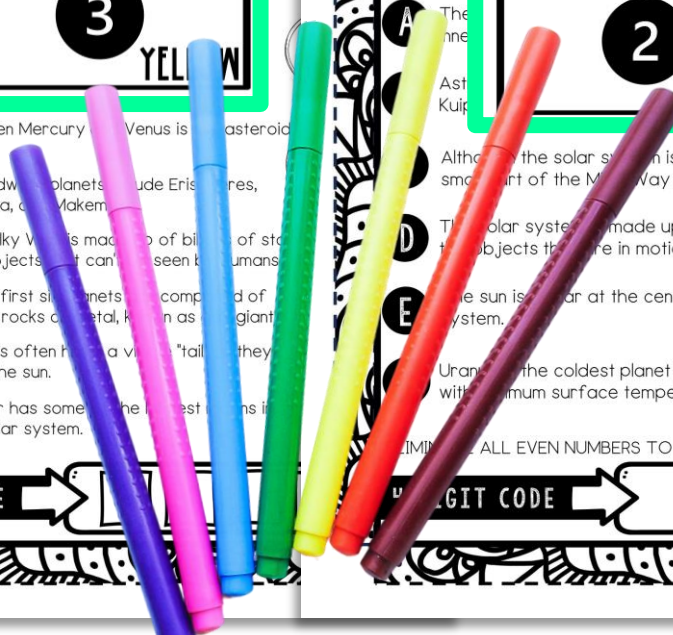
L

M

N

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 codes has been provided for you. If the code is 75, the 7 in the first box, the 5 in the second box and so on.

A
75

B
25

C
50

D
100

A. Neptune is visible to the naked eye and was discovered by Copernicus.

B. The Oort cloud is the farthest part of the solar system.

C. Between Mercury and Venus is the asteroid belt.

D. Some dwarf planets include Eris, Haumea, and Makemake.

E. The Milky Way is made up of billions of stars and objects that can't be seen with the naked eye.

F. These first six planets are composed mostly of rocks or metal, known as terrestrial planets.

G. Comets often have a visible "tail" that points away from the sun.

H. Jupiter has some of the largest moons in the solar system.

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

