

SCIENTIFIC REVOLUTION

CUBE 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 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 to the value. If the statement is false, cross out that coin value. After you are finished add the TOTAL of ALL TRUE coin values. 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.

SCIENTIFIC REVOLUTION
The scientific revolution was a period of time known for extreme changes in the way the world thought about science beginning in the 16th and 17th centuries in Europe. The scientific revolution included the way people viewed nature, approached thinking and reasoning, and the development of a scientific method to test hypotheses. The first big change in scientific thought was the way people viewed the earth's motion and position in space. Before the 16th and 17th centuries, the generally accepted view was that the earth remained still in space and the planets, sun, and moon moved around the earth. During the scientific revolution, there were people suggesting that the earth in fact moved through space.

THINK TANK

4 DIGIT CODE

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.

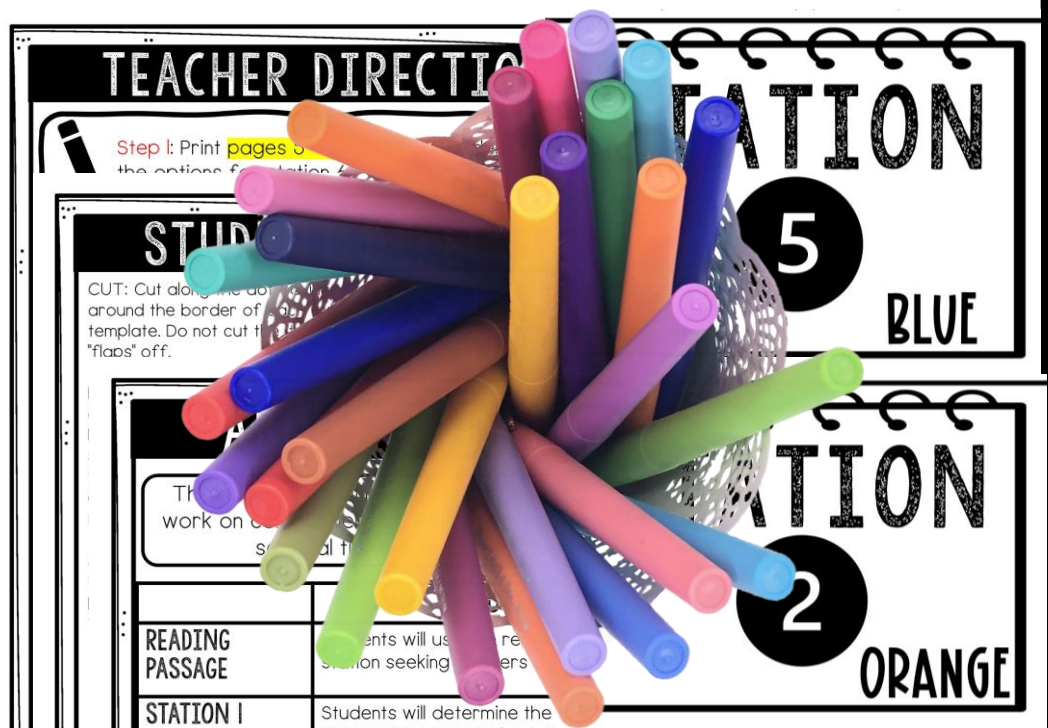
STATION

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	Boyle	4	Aristotle	7	speed
2	matter	5	light	8	liquid
3	Fulton	6	Plato	9	gas

Chemistry, the study of how matter changes and improves as well as the history of chemistry from earth, water, and air. These elements were used to create materials of nature. The first person being used to help of Chemistry - the "Father of Chemistry" - changed materials into more desirable materials. He also analyzed the relationship between pressure and

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 year Isaac Newton invented his three laws of motion MINUS 1680.

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.

What did Boyle's Law detail? What did Kepler's Law detail?

- A. Pressure and volume
B. Gravity and inertia
C. Planets and the sun
D. None of the above
- A. Single-celled organisms
B. Planets and the sun
C. Planets and the sun
D. None of the above

Who improved the microscope to see bacteria?

- A. Antony van Leeuwenhoek
B. Robert Hooke
C. Francis Bacon
D. Robert Boyle

What is the scientific method known as?

- A. Physics
B. Calculus
C. Optics
D. Chemistry
- A. Hypothesis
B. Asking questions
C. Testing a theory
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 the coin. 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. Newton was the first to publish his ideas on a sun-centered universe.
- D. Alchemy was the process of changing base metals into more desirable metals.
- E. Acoustics is the study of light.
- F. Galileo proved with his telescope that the sun was on earth, and that the planets revolved around it.
- G. The scientific revolution began in the 12th and 13th centuries in South America.
- H. Robert Hooke developed the word "cell."

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 4-digit code is the sum of the paragraph numbers.

STATION

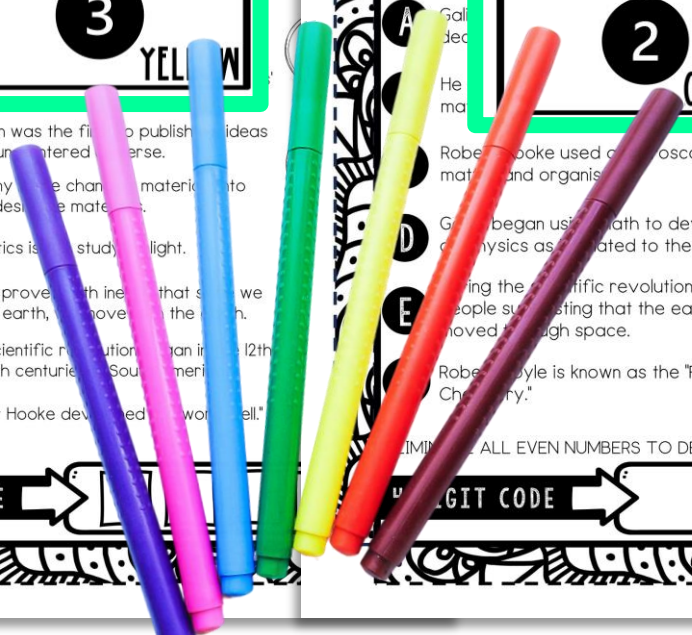
2

ORANGE

- A. Galileo used his telescope to study tiny stars and planets.
- B. He made the first microscope.
- C. Robert Hooke used a microscope to study tiny plants and animals.
- D. Galileo began using math to develop a new idea of physics associated to the planets.
- E. During the scientific revolution, there were people suggesting that the earth in fact moved through space.
- F. Robert Boyle is known as the "Father of Chemistry."

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, write the 7 in the first box, the 5 in the second box and so on.

A. The scientific revolution introduced an ever-changing system of how we work in our world.

B. Johannes Kepler agreed with Galileo's theory.

C. Newton was the first to publish a theory on a sun-centered universe.

D. Alchemy is the changing of more base materials into more desirable materials.

E. Acoustics is the study of light.

F. Galileo proved with inertia that objects on earth, we move with the earth.

G. The scientific revolution began in the 16th and 13th centuries in South America.

H. Robert Hooke developed the microscope.

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

