

# NASA SPACE PROGRAM

## CUBE CODE

Who was the first American to walk on the moon?  
A. Glenn  
B. Yuri Gagarin  
C. Neil Armstrong  
D. Alan Shepard

Who was the first man to orbit the earth aboard the Vostok 1?  
A. Yuri Gagarin  
B. Buzz Aldrin  
C. John Glenn  
D. Nicholas Copernicus

What is the science of traveling through air known as?  
A. Acoustics  
B. Aeronautics  
C. Economics  
D. None of the above

Which directory studies the universe, its origin, evolution, and structure?  
A. Biological Research  
B. Space Science  
C. Human Exploration  
D. Aerospace Technology

What room was used for the first space flight?  
A. Mission Management Team  
B. Mission Specialist  
C. Mission Specialist  
D. Mission Specialist

What is the science of traveling through air known as?  
A. Acoustics  
B. Aeronautics  
C. Economics  
D. None of the above

The year NACA was established by President Wilson MINUS 1910.

The FIRST number of the lock is the number of directories or sections NASA is divided into MINUS 1.

The THIRD number of the lock is the year NASA was established by President Eisenhower MINUS 1950.

4	Kennedy	7	Apollo 11
5	34	8	Endeavor I
6	Roosevelt	9	moon
12	Clinton		

In 1961, President Kennedy announced that America would land a man on the moon within the next ten years. The goal of the Gemini program was to...

**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** Many test flights with animals were completed before astronauts were sent to space.

**B** Neil Armstrong commanded the flight and first stepped foot on the moon.

**C** Project Gemini was NASA's second manned space flight program.

**D** The Spruce Knob is a mountain in Colorado.

**E** Rescued astronauts were taken to a hospital.

**F** The Adirondack Park is a large state park in New York.

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

In 1961, Russian astronaut Yuri Gagarin was the first man to orbit the earth aboard the Vostok I.

Project Gemini became NASA's second manned space flight program.

NASA is divided into 9 directories or sections.

President Woodrow Wilson started the National Advisory Committee for Aeronautics.

The International Space Station or ISS is a large spacecraft that orbits earth.

The program continued until 1972.

John Glenn became the first American astronaut to orbit earth in 1968.

Years, NASA has had many successful missions.

**NASA**

The National Aeronautics and Space Administration (NASA) was established in 1958 by President Dwight D. Eisenhower. Today, NASA is part of the federal government that explores space and aeronautics; the science of traveling through air. Over the years, NASA has had more than 1,000 unmanned missions and roughly 150 missions with astronauts onboard. These missions have accomplished a great deal from orbits, sending people to the moon, launching satellites for communication and weather, and research.

Before NASA was established, President Woodrow Wilson started the National Advisory Committee for Aeronautics (NACA) in 1915. NACA was...



### 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.

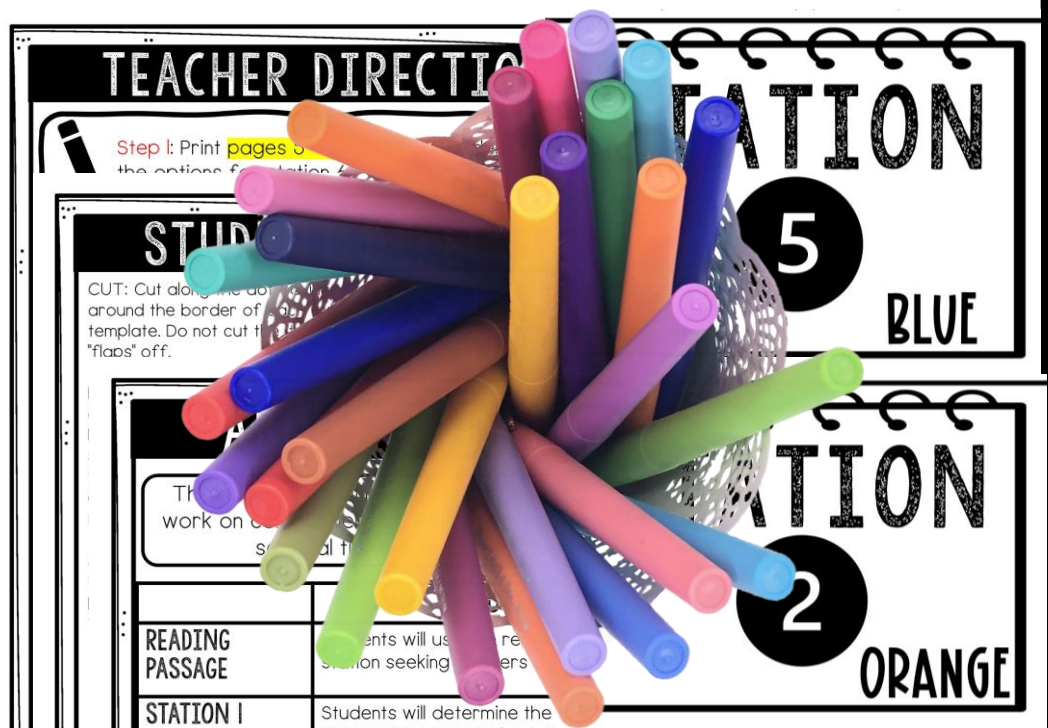
# STATION

# 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	Mars	4	Kennedy	7	Apollo
2	Roosevelt	5	34	8	Endeavor
3	12	6	Clinton	9	moon

In 1961, President \_\_\_\_\_ announced that America should plan to send a man to the moon in the next ten years. This led to the creation of NASA's space program. The program was named after the first president of the United States, \_\_\_\_\_.

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 Glenn became the first American astronaut to orbit earth MINUS 1960.

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.

Who was the first American to step foot on the moon?

- A. John Glenn
- B. Buzz Aldrin
- C. Yuri Gagarin
- D. Neil Armstrong

Where are the headquarters of NASA?

- A. Philadelphia, PA
- B. Washington, DC

NASA was created in 1958. What was the first mission to the moon?

- A. World War II
- B. World War I
- C. Vietnam War
- D. Revolution

STATION

5

BLUE

Which direction does the Earth rotate?

- A. Biological Research
- B. Space Science
- C. Human Exploration
- D. Aerospace Technology

- A. Acoustics
- B. Aeronautics
- C. Economics
- D. None of the above

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 for you. The 4-digit code has been revealed. The first box is empty.

STATION

3

YELLOW

A  
75

B  
25

C  
50

D  
100

- C. NASA is divided into several sections.
- D. President Andrew Johnson started the National Advisory Committee for Aeronautics.
- E. The International Space Station is a large space station that orbits Earth.
- F. The Apollo program continued until 1972.
- G. In 1968, John Glenn became the first American astronaut to orbit Earth aboard the Sputnik 7.
- H. Over the years, NASA has launched more than 1,000 unmanned missions.

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 4-digit code is revealed. Paragraph numbers are listed on the right.

STATION

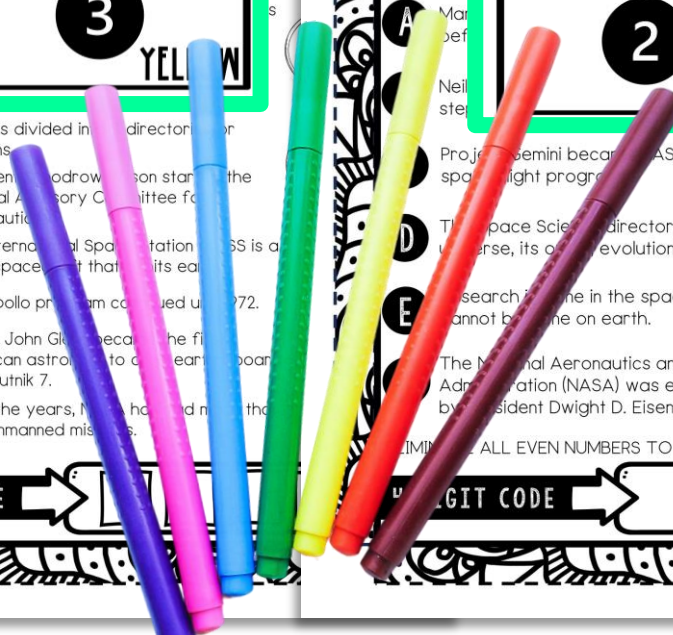
2

ORANGE

- A. Mars is the only planet in our solar system that has a day longer than 24 hours.
- B. The first manned mission to the moon was Apollo 11.
- C. Project Gemini became NASA's second manned spaceflight program.
- D. The Space Science and Technology directory studies the universe, its evolution, and structure.
- E. Research is being done in the space station that cannot be done on earth.
- F. The National Aeronautics and Space Administration (NASA) was established in 1958 by President Dwight D. Eisenhower.

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

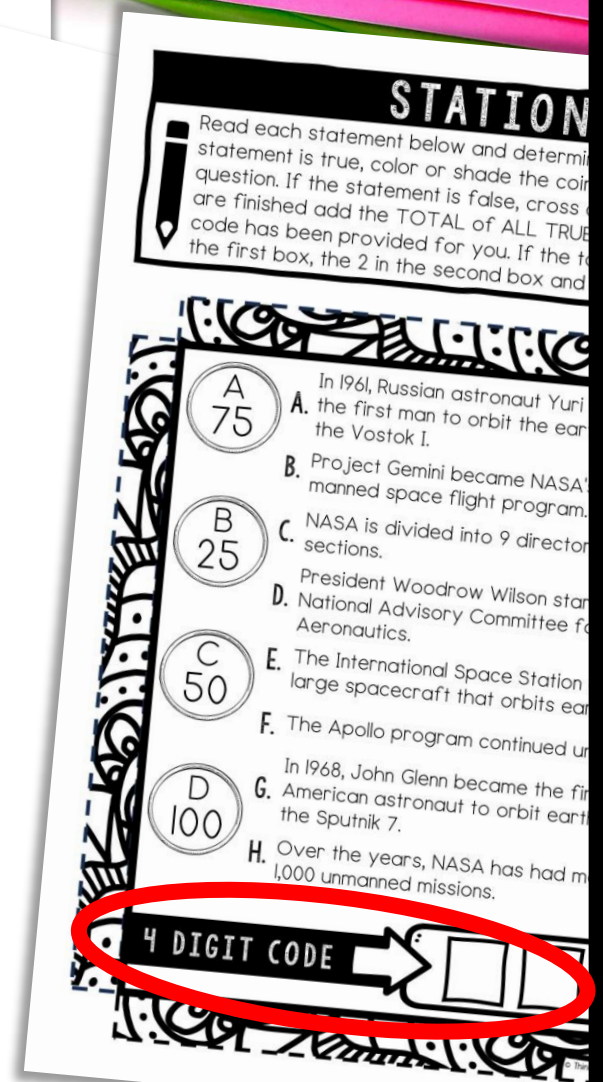
Students work individually (or in pairs) and visit 6 stations, grabbing one side of their cube at each station.

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 answers. A code has been provided for you. If the total 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.** In 1961, Russian astronaut Yuri Gagarin became the first man to orbit the earth on the Vostok I.

**B.** Project Gemini became NASA's first manned space flight program.

**C.** NASA is divided into 9 directorates and 13 field offices.

**D.** President Woodrow Wilson started the National Advisory Committee for Aeronautics.

**E.** The International Space Station is the largest spacecraft that orbits earth.

**F.** The Apollo program continued until 1971.

**G.** In 1968, John Glenn became the first American astronaut to orbit earth on the Sputnik 7.

**H.** Over the years, NASA has had more than 1,000 unmanned missions.

**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

