LEAP YEAR

CUBE CODE

every four y...
A. Bicentennial
B. Quadrennial
C. Millenial
D. Annual

The concept of Leap Year has its roots in the ——— calendar of Julius Caesar.
A. Roman
B. Greek
C. Aztec
D. Byzantine

nomer advised
make significant
to the calendar?

enes

ates

ximately how long does
e Earth to complete one
t around the sun?

856.75 days
365.25 days
385.6774 days
392.15 days

With the leap year system,
adding one day to the
calendar occurs how often?

A. Every year
B. Every 2 years
C. Every 3 years
D. Every 4 years

The original goal of the
Gregorian calendar was to
change the date of wh...
A. Christmas
B. Halloween
C. Thanksgiving
D. Easter

the day in February known as
Leap Day MINUS 20.

The FIRST number of the lock is the
year Caesar made significant changes
to the Roman calendar MINUS 41.

The THIRD number of the lock is the
year the Gregorian calendar was first
introduced MINUS 1580.

1	8,641	4	1960	7	Calculated
2	4,683	5	1964	8	leaplings
3	1,461	6	Coordinated	9	leap frogs

n February 29th, known as "leap day
...thday that occurs only once
...iduals often choose to
...st in non-leap years.
...29th is about 1

Individuals ...
babies" or "———
...every four y...
celebrate on ...
The prob...
in ———.

Acc...
one fa...
born on ...
Febr...
an...

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 answer numbers as your final code (in the order of questions). Paragraph numbers MAY be used more than one time or not at all.

A. Peter Keogh was born in Ireland on February 29, 1940.

B. The concept of Leap Year has its roots in the Roman cale... attributed to Julius Caesar.

C. The origi... was to c...

D. There a... traditio... every ...

E. To ac... and 4... year...

F. Cath... impl... 1582...

STATION 3:

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

A 75
A. The adoption of the Gregorian calendar occurred at different times in different regions.

B 25
B. Leap Year is connected to the Earth's orbit.

C. Anthony, Texas, and Anthony, New Mexico, both call themselves the Leap Year Capital of the World.

D. Without the addition of Leap Year Capital would lose about eleven days every year.

C 50
E. The Gregorian calendar was introduced by Pope John Paul VII in 1684.

E 100
F 75

CE, Julius Caesar introduced
nt changes to the Roman cale...
bability of being born on F...
out 1 in 6,004.

and its colonies, the sw...
an calendar did not ha...

G 50

LEAP YEAR

Every four years, our calendars display an unusual irregularity – an extra day added to February, making it a 29-day month instead of the usual 28. This phenomenon is known as Leap Year. There are both scientific reasons and traditions behind this quadrennial (recurring every 4 years) occurrence.

Leap Year is connected to the Earth's orbit. It takes approximately 365.25 days for the Earth to complete one orbit around the sun, which poses a challenge for our standard 365-day calendar. To account for the extra 5 hours, 48 minutes and 46 seconds, one day is added every four years. This creates a more accurate alignment with the solar year. Without the addition of Leap Day, we would lose about six hours every year.

DIGIT CODE

A 75
A. The Constitution is organized into seven different parts called Articles.

B 25
B. The Constitutional Convention was held in Boston, Massachusetts.

C. The 3 branches include the Legislative, Executive and Parliament Branch.

F 75
D. The first ten amendments came in 1791 and are called the Bill of Rights.

C 50
E. The opening part of the Constitution is called the Preamble.

G 50
F. George Washington was known as the "Father of the Constitution."

D 100
G. The U.S. Constitution is the oldest government document still in use today.

H 25

4 DIGIT CODE → [ ][ ][ ][9]

THINK TANK

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

TEACHER DIRECTIONS

Step 1: Print pages ...
the options for station 6...

STUDENT ...

CUT: Cut along the dot...
around the border of ...
template. Do not cut ...
"flaps" off.

STATION 5 — BLUE

STATION 2 — ORANGE

| READING PASSAGE | Students will use ... station seeking ... |
| STATION 1 | Students will determine the ... paragraph to reveal a 4-digit code ... |

6 STATIONS

STATION 1:
Use your reading passage or deductive reasoning [...] determine the missing words in the paragraph below [...] missing word has a corresponding NUMBER. The 4-[...] will be the NUMBER of each missing word in the sam[...] in which they appear in the paragraph.

1	8,641	4	1960	7	Calcula[...]
2	4,683	5	1964	8	leapling
3	1,461	6	Coordinated	9	leap fr[...]

Individuals born on February 29th, known as "leap [...] babies" o[...] [...] urs only onc[...] every fo[...] choose to celebrate [...] on non-leap ye[...] The prob[...] y 29th is abo[...] in ___.

Acco[...] there is on[...] one famil[...] cutive gener[...] born on F[...] rn in Ireland February[...] eap Day in ___ and his granddaughter was born on February 29, 1996[...]

Leap Year isn't the only adjustment made to our [...]

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 y[...] main idea or topic sentence.
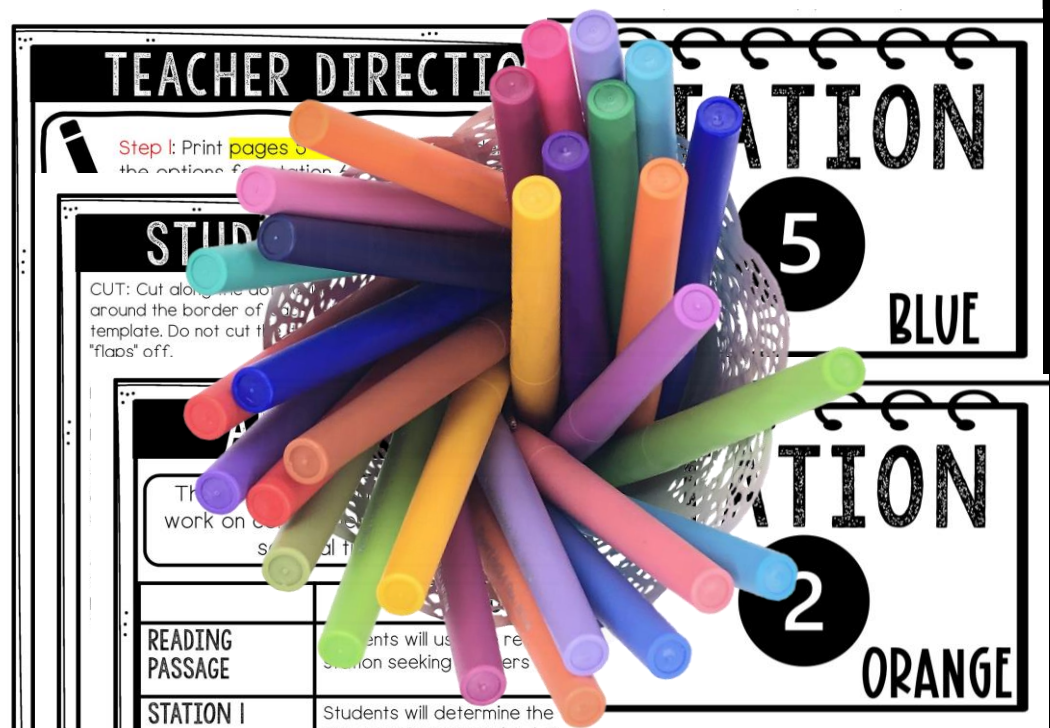
MAIN IDEA

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 in the United States the Uniform Time Act was established MINUS 1960.

The SECOND number of the lock is [...]

4 DIGIT CODE

STATION 4 — GREEN

STATION 5:
Answer each multiple choice question below. Then, c[...] number of times you used each letter answer (ABCD[...] reveal your 4 digit code. Answer options may be use[...] than once or not at all. If a letter option is not used, [...] put a zero in the box.

What astronomer advised Caesar to make significant changes to the calendar?
A. Galileo
B. Sosigenes
C. Plato
D. Socrates

What word means 'recurring every four years'?
A. Bicentennial
B. Quadrennial
C. [...]

Approxim[...] it take Ea[...] orbit arou[...]
A. 356.75[...]
B. 365.25[...]
C. 385.67[...]
D. 392.15 d[...]

[...] eap Yea[...] Caesar.

With the [...] adding or [...] calendar occurs how often?
A. Every year
B. Every 2 years
C. Every 3 years
D. Every 4 years

[...] the [...] was to [...] change the date of what?
A. Christmas
B. Halloween
C. Thanksgiving
D. Easter

STATION 5 — BLUE

A ☐ B ☐ C ☐ D ☐

STATION 3:
Read each statement below and determine if it is true or f[...] statement is true, color or shade the coin that correspond[...] question. If the statement is false, cross out the coin value[...] are finished [...] One [...] code has be[...] 6 wo[...] the first bo[...]

A	75
B	25
C	50
D	100

C. Anthony, Texas, a[...] Anthony, N[...] Mexico, both call themselve[...] the Leap Year Capital of the World.

D. Without t[...] addition [...] Leap Da[...] we would lose [...] about ele[...] days every year.

E. The Gregor[...] calend[...] was introduced by Pope John P[...] VII in [...]

F. In 46 BCE, Juli[...] aesar[...] roduc[...] significant cha[...] to th[...] Roman calendar.

G. The probability [...] being [...] orn on Februa[...] 29th is about 1 in [...] 04.

H. In England and its [...] nies [...] e sw[...] to [...] the Gregorian calendar [...] di[...] t ha[...] until 1752.

STATION 3 — YELLOW

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 [...] Paragraph numbers MA[...]

A. Pete[...] 29[...]

[...] Rom[...]

The [...] al goal of t[...] Gregorian calendar wa[...] change the [...] of Easter.

[...] e both [...] ific reasons and tr[...] tions behind [...] s quadrennial (recurring [...] y 4 year[...] ccurrence.

[...] account [...] the extra 5 hours, 48 minutes [...] nd 46 se[...] nds, one day is added every four years.

Cath[...] Countries, including Italy and Spain, imp[...] ented the Gregorian calendar in October [...]

[...] ALL EVEN NUMBERS TO DETERMINE THE FINAL CODE.

STATION 2 — ORANGE

[...] IGIT CODE

Top Face

A B C D E F

There have been twenty-seven amendments to the Constitution since it was drafted.

The Preamble is primarily a summary of how the government can operate and how the citizens will be treated.

The three branches created a balance of power within the federal government.

The United States had a document before the Constitution called the Articles of Confederation.

The Constitution, or plan of government, is the most important document in the history of the United States.

The United States Constitution is a document that states how the federal government should operate.

ELIMINATE ALL ODD NUMBERS TO DETERMINE THE FINAL CODE.

4 DIGIT CODE

Left Face

A B C

What word means change or addition to the Constitution?

A. Article
B. Amendment
C. Preamble
D. Clause

Which of the following is included in the Bill of Rights?

A. Right to a fair trial
B. Freedom of Speech
C. Freedom of Religion
D. All of the above

What U.S. document was the law of the land before the Constitution?

A. Magna Carta
B. Bill of Rights
C. Declaration of Independence
D. Articles of Confederation

What month was the US Constitution signed?

A. March
B. September
C. July
D. August

What is another word for federal?

A. National
B. Local
C. International
D. None of the above

What is the opening part of the Constitution called?

A. Resolution
B. Preamble
C. Article
D. Amendment

A ☐ B ☐ C ☐ D ☐

Right Face

A. The Constitution is organized into seven different parts called Articles. — Ⓐ 75

B. The Constitutional Convention was held in Boston, Massachusetts. — Ⓑ 25

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. — Ⓒ 50

E. Before the Constitution, a strong federal government held the states together. — Ⓓ 100

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.

Ⓔ 100   Ⓕ 75   Ⓖ 50   Ⓗ 25

4 DIGIT CODE ➡ ☐ ☐ ☐ 9

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

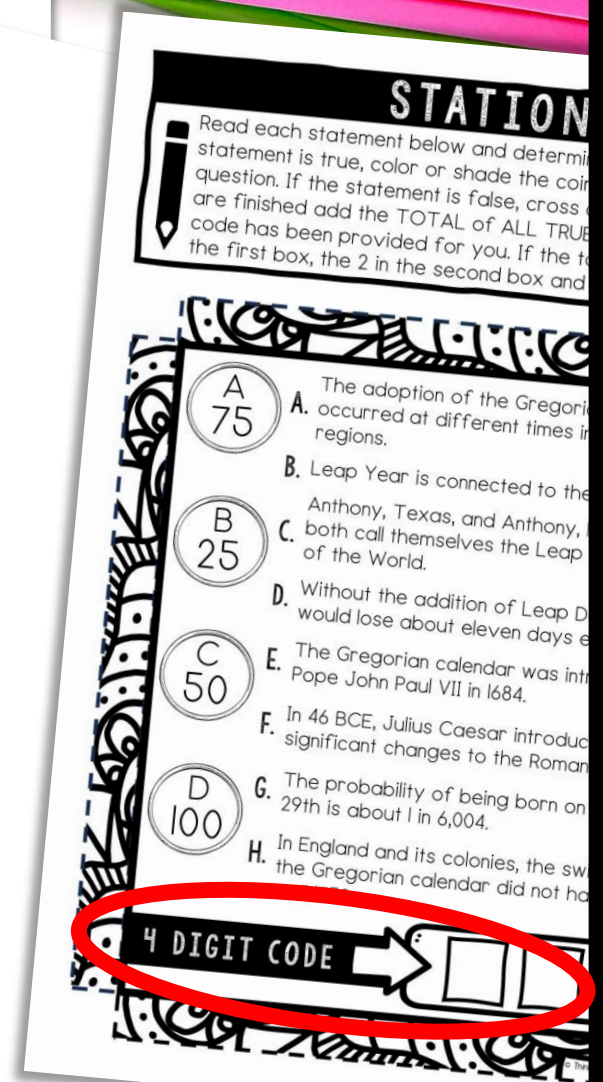## ENGAGING READING COMPREHENSION PRACTICE!

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 statement is true, color or shade the co question. If the statement is false, cross are finished add the TOTAL of ALL TRU code has been provided for you. If the t the first box, the 2 in the second box and

A. 75   A. The adoption of the Gregori occurred at different times i regions.

B. 25   B. Leap Year is connected to the

Anthony, Texas, and Anthony, C. both call themselves the Leap of the World.

C. 50   D. Without the addition of Leap D would lose about eleven days e

D. 100   E. The Gregorian calendar was int Pope John Paul VII in 1684.

F. In 46 BCE, Julius Caesar introduc significant changes to the Roman

G. The probability of being born on 29th is about 1 in 6,004.

H. In England and its colonies, the sw the Gregorian calendar did not ha

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