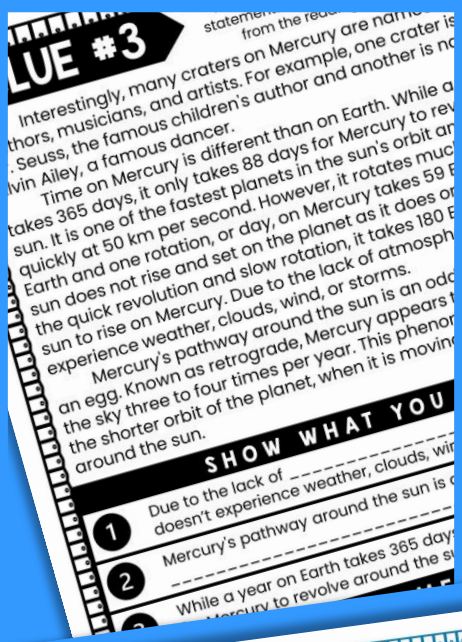
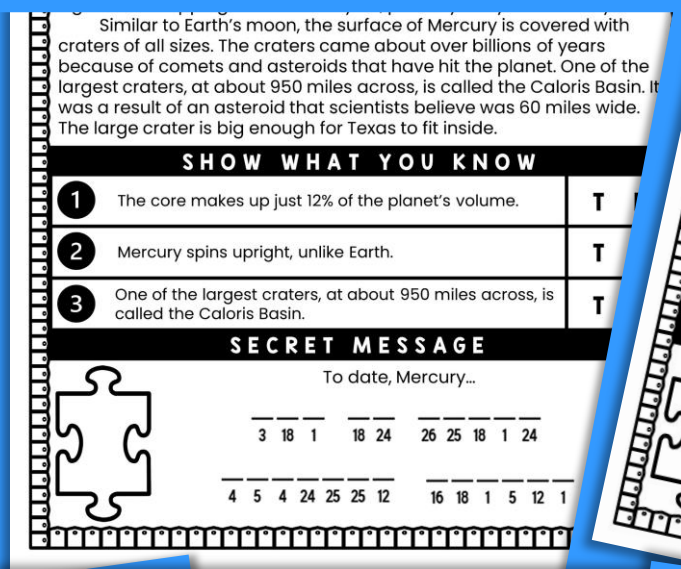
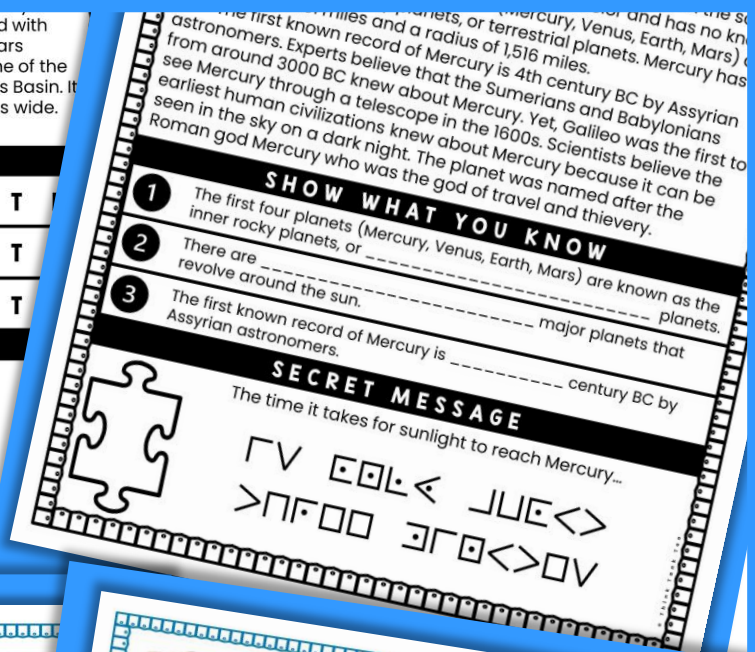
PLANET MERCURY

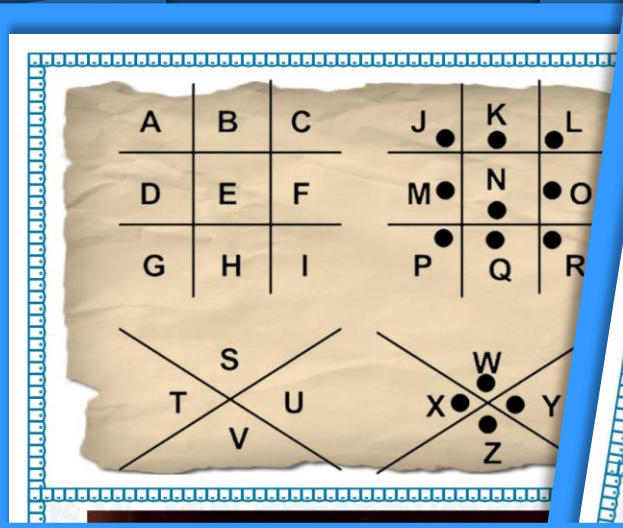
ESCAPE ROOM

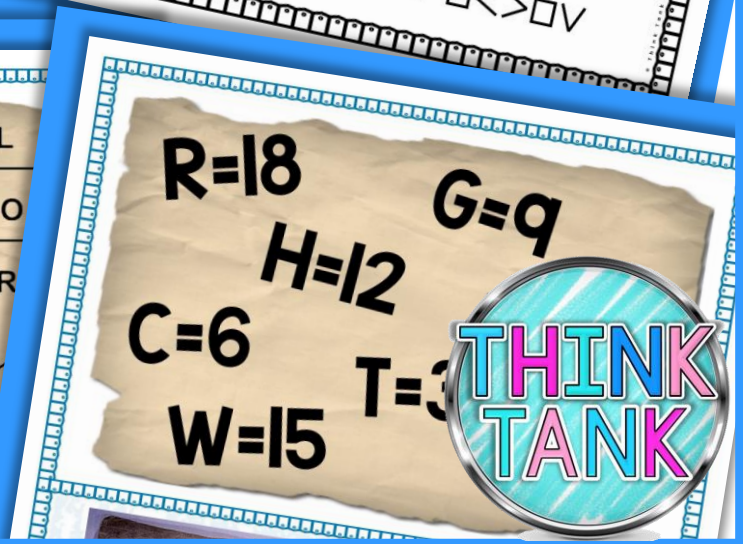








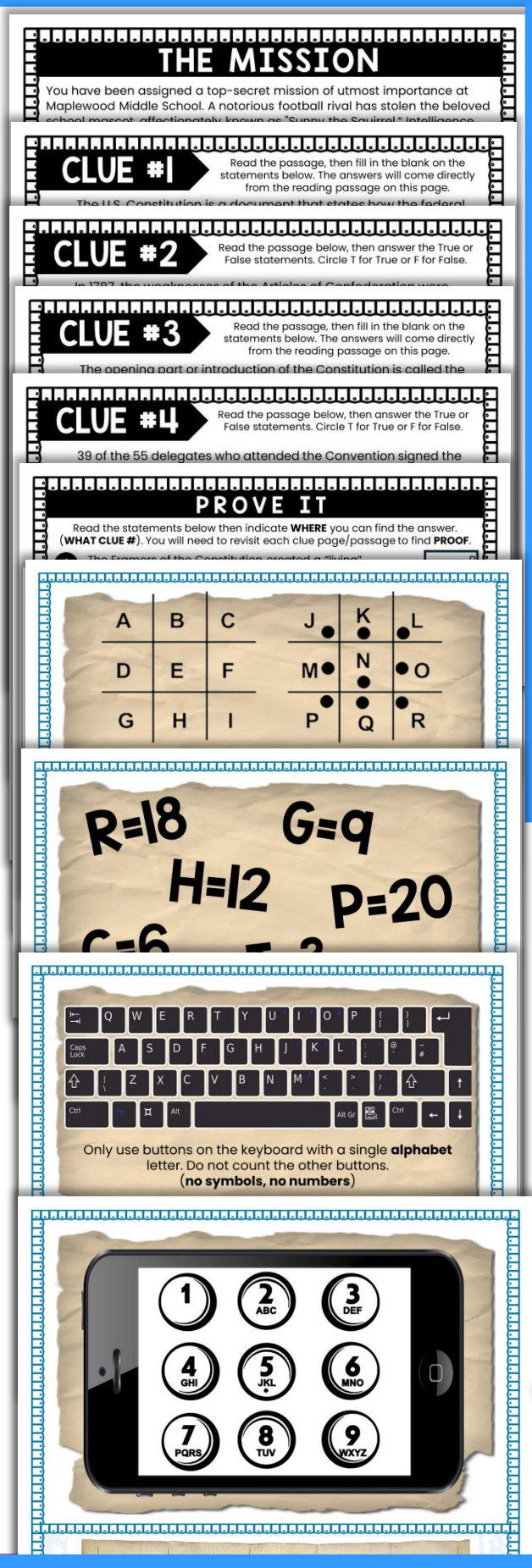


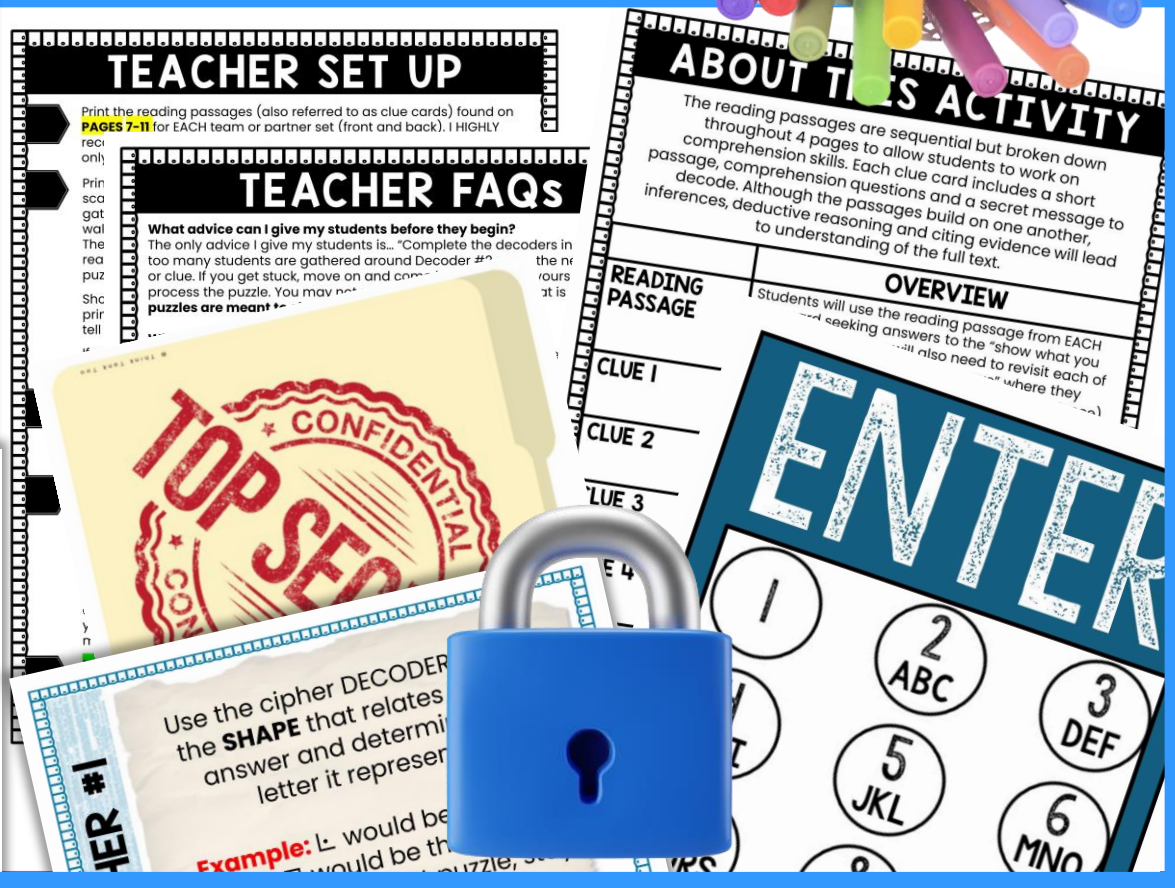


WHAT'S INCLUDED?

- 4 SHORT READING PASSAGES
- 4 PUZZLE DECODERS (UNLABELED)
- 4 PUZZLE DECODERS (LABELED)
- 18 COMPREHENSION QUESTIONS
- TEACHER SET UP
- STUDENT DIRECTIONS
- HINT CARDS
- FAQS
- ANSWER KEY
- PROP SIGNS







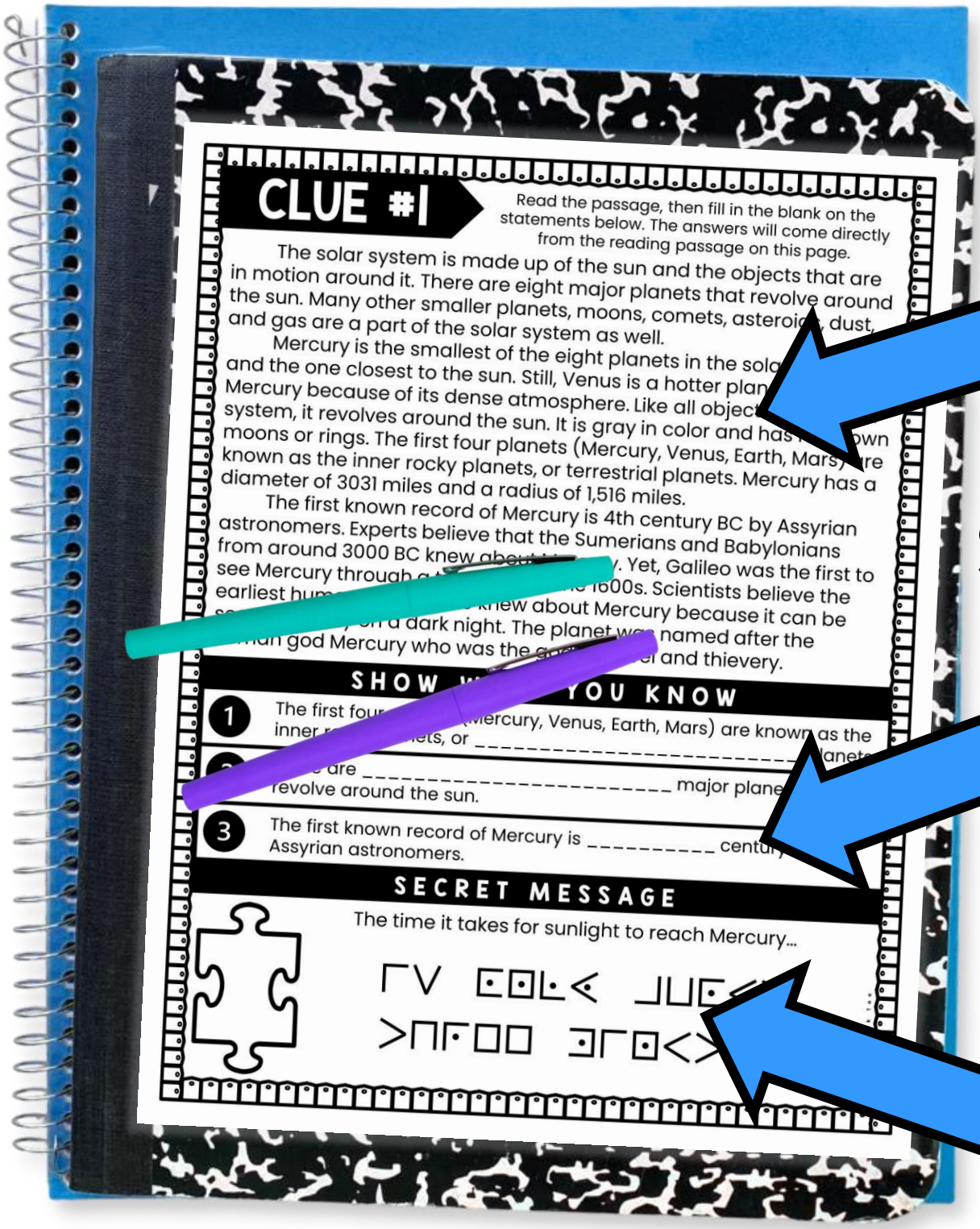
4 CLUE CARDS


CLUE #2
Read the passage below, then
False statements. Circle T for True
Temperatures on Mercury can reach up to 800 degrees
Fahrenheit during the day and as low as -300 degrees Fahrenheit
during the night when it is facing away from the sun. Mercury doesn't
have an atmosphere like Earth. Instead, there is only an exosphere
with oxygen, sodium, helium, hydrogen, and potassium. Merc
doesn't have seasons. This
only 2 degrees. Mercury
Mercury is solid, c
there is a large iron c
volume. The core
Mercury underw
significant strin
Similar to
craters of all
because of
largest cra
was a resu
The large
SHOW WHAT YOU KNOW
The core ma
Mercury spins upright, unlike E
One of the largest craters, at about 950 miles across, is
called the Caloris Basin.
SECRET MESSAGE
To date, Mercury...
3 18 1 18 24 26 25 18 1 24
4 5 4 24 25 25 12 16 18 1 5 12 1
CLUE #1
Read the passage, then
statements below. The answers
from the reading passage on this
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. Many other smaller planets, moons, comets, asteroids, dust,
and gas are a part of the solar system as well.
Mercury is the smallest of the eight planets in the solar system
and the one closest to the sun. Still, Venus is a hotter planet than
Mercury because of its dense atmosphere. Like all objects in the solar
system, it revolves around the
moons or rings. The first four
known as the inner rocky
diameter of 3031 miles and
The first known re
astronomers. Experts
from around 3000 B
see Mercury throug
earliest human civ
seen in the sky on
Roman god Merc
SHOW WHAT YOU KNOW
The first
inner roc
There are _____
revolve around the sun.
The first known record of Mercury is
Assyrian astronomers.
SECRET MESSAGE
The time it takes for sunlight to reach Mercury...
UE #3
terestingly, many
rs, musicians, and
euss, the famous ch
Ailey, a famous dar
Time on Mercury is
kes 365 days, it only to
un. It is one of the faste
quickly at 50 km per sec
Earth and one rotation, c
sun does not rise and se
the quick revolution and
sun to rise on Mercury. D
experience weather, clou
Mercury's pathway
an egg. Known as retrog
the sky three to four time
the shorter orbit of the p
around the sun.
SHOW WHAT YOU KNOW
Due to the lack of _____, Mercury
doesn't experience weather, clouds, wind, or storms.
Mercury's pathway around the sun is an odd
_____ shape, like an egg.
While a year on Earth takes 365 days, it only takes _____ days
for Mercury to revolve around the sun.
SECRET MESSAGE
Galileo Galilei observed Mercury for the first time in...
2-2 1-8 3-2 1-5 1-3 1-3 3-6
Sever
four y
befor
provi
other
magn
with t
not adapt and survive on Mercury.
SHOW WHAT YOU KNOW
Mercury's surface is similar to Earth's moon.
The Mariner 10 was launched in the 1970s and passed
by Mercury three times.
Scientists believe that organisms could adapt and
survive on Mercury.
SECRET MESSAGE
The percent of the planet's surface mapped by Mar
333 666 777 8 999
333 444 888 33
7 33 777 222 33 66

4 DECODERS


D E P
G H I
W Y
X Z
S U
T V
H=3
N=12
B=16
Magnetic Field Strength (nT)
160
120
80
40
0
Magnetopause
Bow shock
Magnetopause
Bow
-2
0
Planet-Sun line position in Mercury radii
Only use buttons on the keyboard with a single alphabet letter. Do not count the other buttons.
(no symbols, no numbers)
3-5 = B
4 GHI
5 JKL
6 MNO
7 PQRS
8 TUV
9 WXYZ

READ & THINK



READ THE PASSAGE

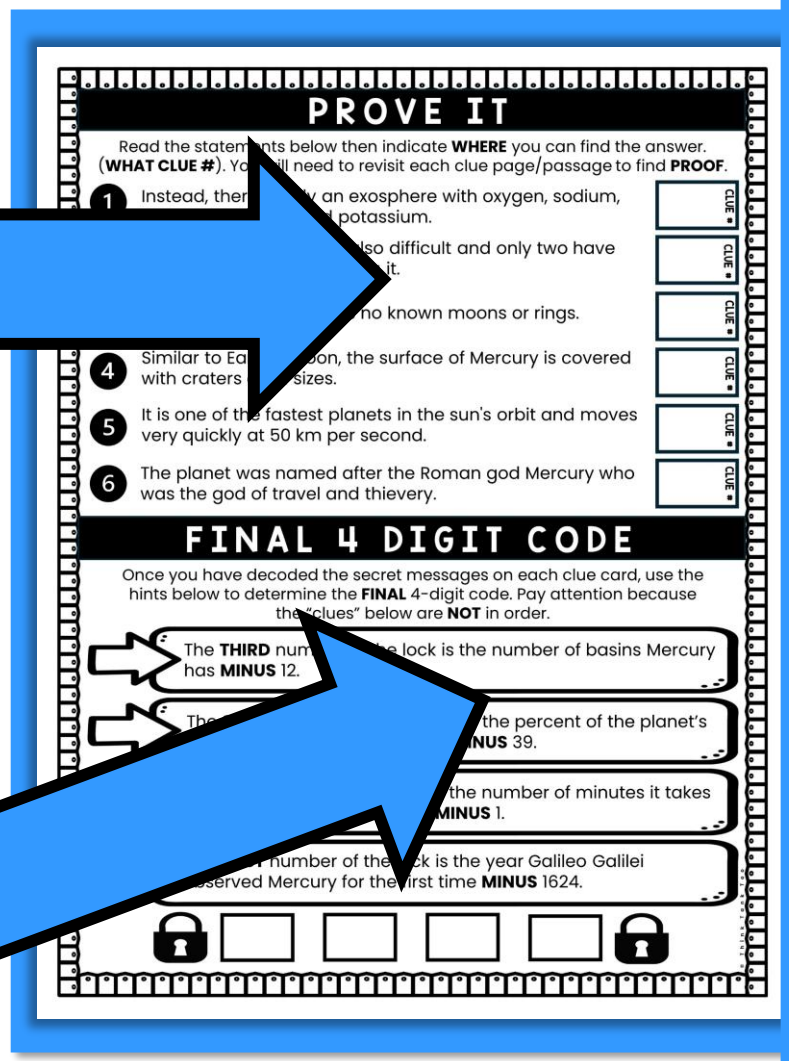
SHOW WHAT YOU KNOW

DECODE THE MESSAGE

FINAL CODE

CITING TEXT EVIDENCE

Students will read the final code statements then PROVE WHERE they found the answer (CLUE #). This will ensure that students read and revisit the reading passages multiple times seeking text evidence.



CRITICAL THINKING

Students will use critical thinking skills to decode the secret messages. They will then use the information revealed in the message to determine the final 4-digit code.



HOW IT WORKS







ENGAGING READING COMPREHENSION PRACTICE!

1. There are 4 clue cards and 4 puzzle decoders. Each clue card includes a short reading passage, questions to check for understanding, and a secret message to decode.

2. Students will work in pairs (or individually) and race to complete all 4 clue cards. A friendly competition always increases engagement. As students progress through the escape room, they will earn "clues" to determine the final 4-digit code. The final code is also a puzzle!



PRINT & GO



ABOUT THIS ACTIVITY

The reading passages are sequential but broken down throughout 4 pages to allow students to work on comprehension skills. Each clue card includes a short passage, comprehension questions and a secret message to decode. Although the passages build on one another, inferences, deductive reasoning and citing evidence will lead to understanding of the full text.

	OVERVIEW
READING PASSAGE	Students will use the reading passage from EACH clue card seeking answers to the "show what you know" portion. They will also need to revisit each of the 4 clue card passages to "prove" where they found the answer for the final code (text evidence)
CLUE 1	Students will read the passage, answer 3 fill in the blank questions, and reveal a secret message using a puzzle decoder.
CLUE 2	Students will read the passage, answer 3 True False questions, and reveal a secret message using a puzzle decoder.
CLUE 3	Students will read the passage, answer 3 fill in the blank questions, and reveal a secret message using a puzzle decoder.
CLUE 4	Students will read the passage, answer 3 True or False questions, and reveal a secret message using a puzzle decoder.
FINAL CODE	As students progress through the escape room, they will decode "clues" to determine the final 4-digit code. The final code is also a puzzle! In order to "escape" students must present correct answers for EVERY question as well as the decoded secret messages and final 4-digit code.

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BENEFITS

- ✅ PRINT & GO
- ✅ CLOSE READING
- ✅ COMPREHENSION SKILLS
- ✅ SECRET CODES
- ✅ CITING EVIDENCE
- ✅ CRITICAL THINKING
- ✅ MOVEMENT
- ✅ ACTIVE LEARNING
- ✅ CROSS-CURRICULAR
- ✅ HIGHLY ENGAGING
- ✅ NO LOCKS NEEDED
- ✅ NO ENVELOPES TO STUFF
- ✅ NO ODD SHAPES TO CUT



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

USE FOR



ANTICIPATORY SETS

UNIT REVIEW

EARLY FINISHERS

STATIONS

REWARD ACTIVITY

SUB PLANS

COLLABORATION

ENRICHMENT

GALLERY WALK