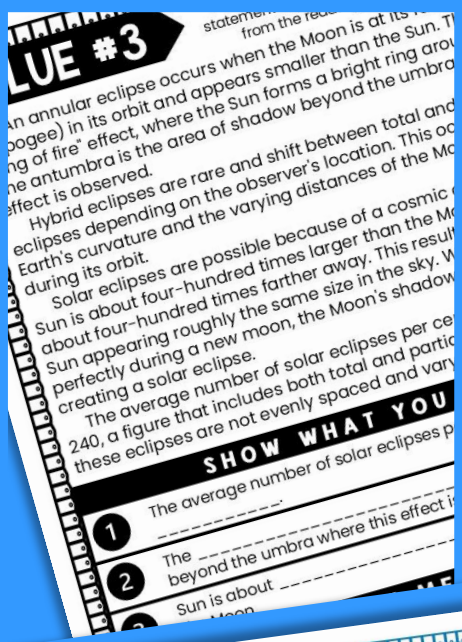
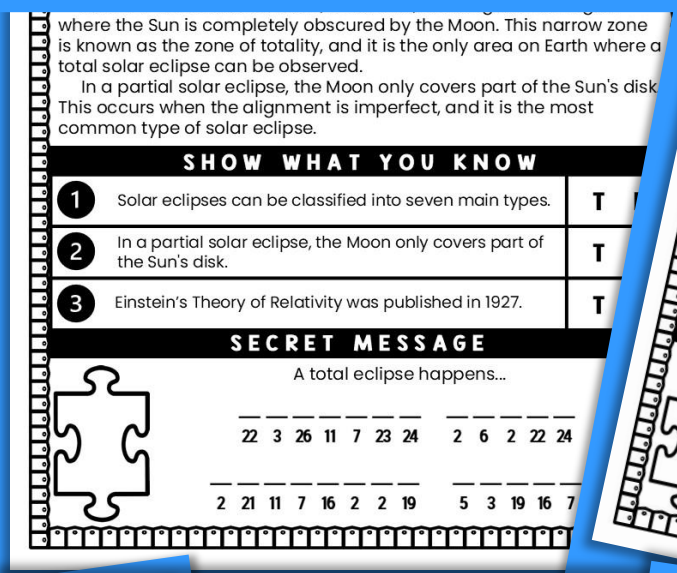
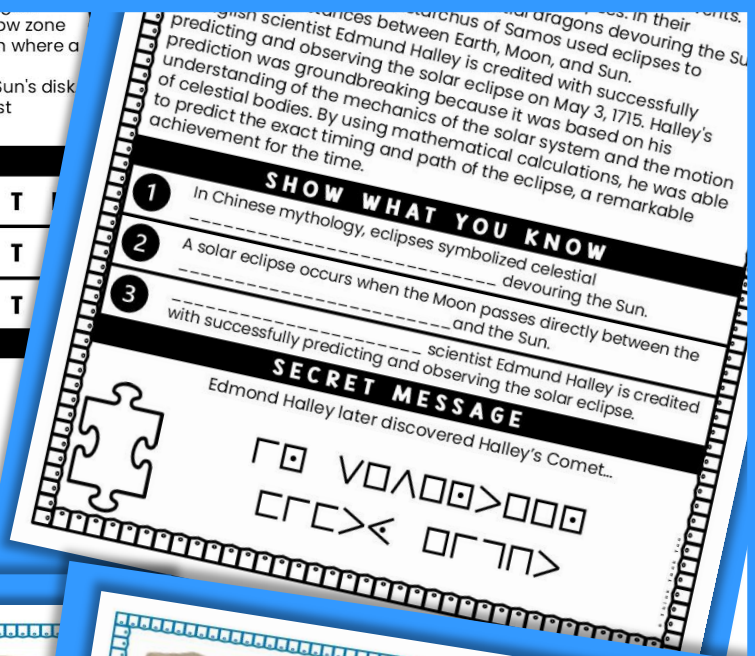
SOLAR ECLIPSE

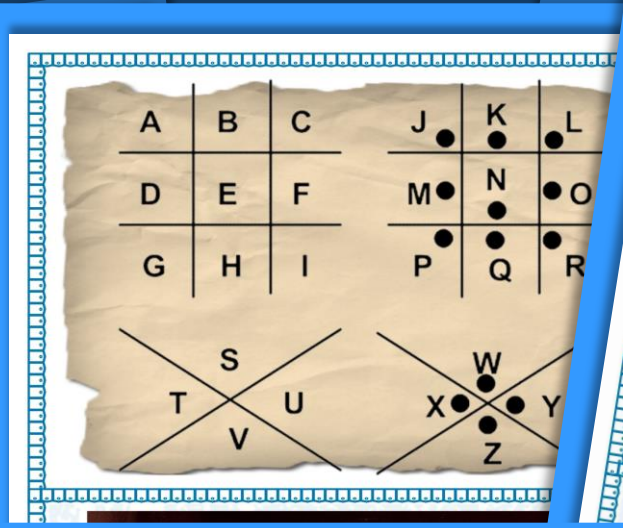
ESCAPE ROOM

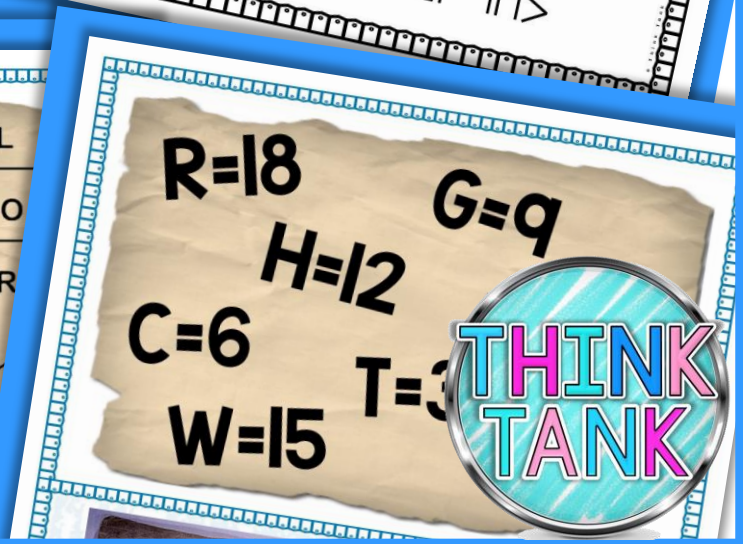








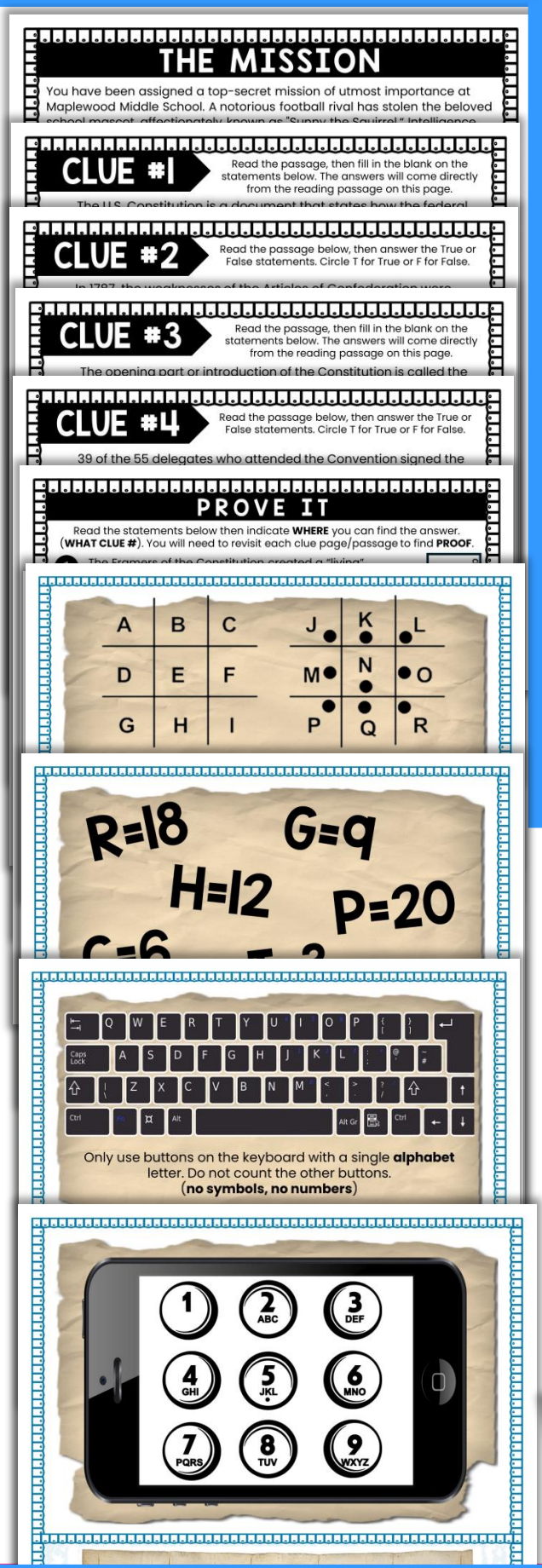


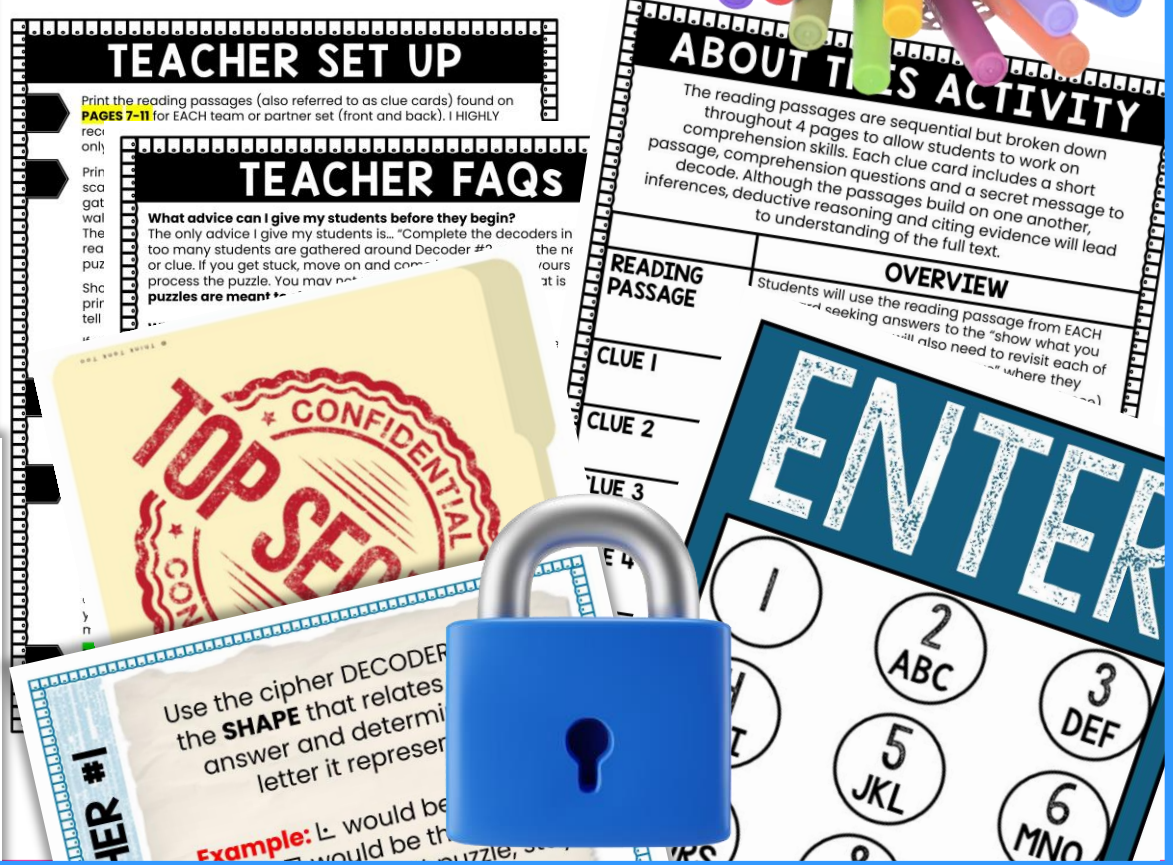


WHAT'S INCLUDED?

- 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



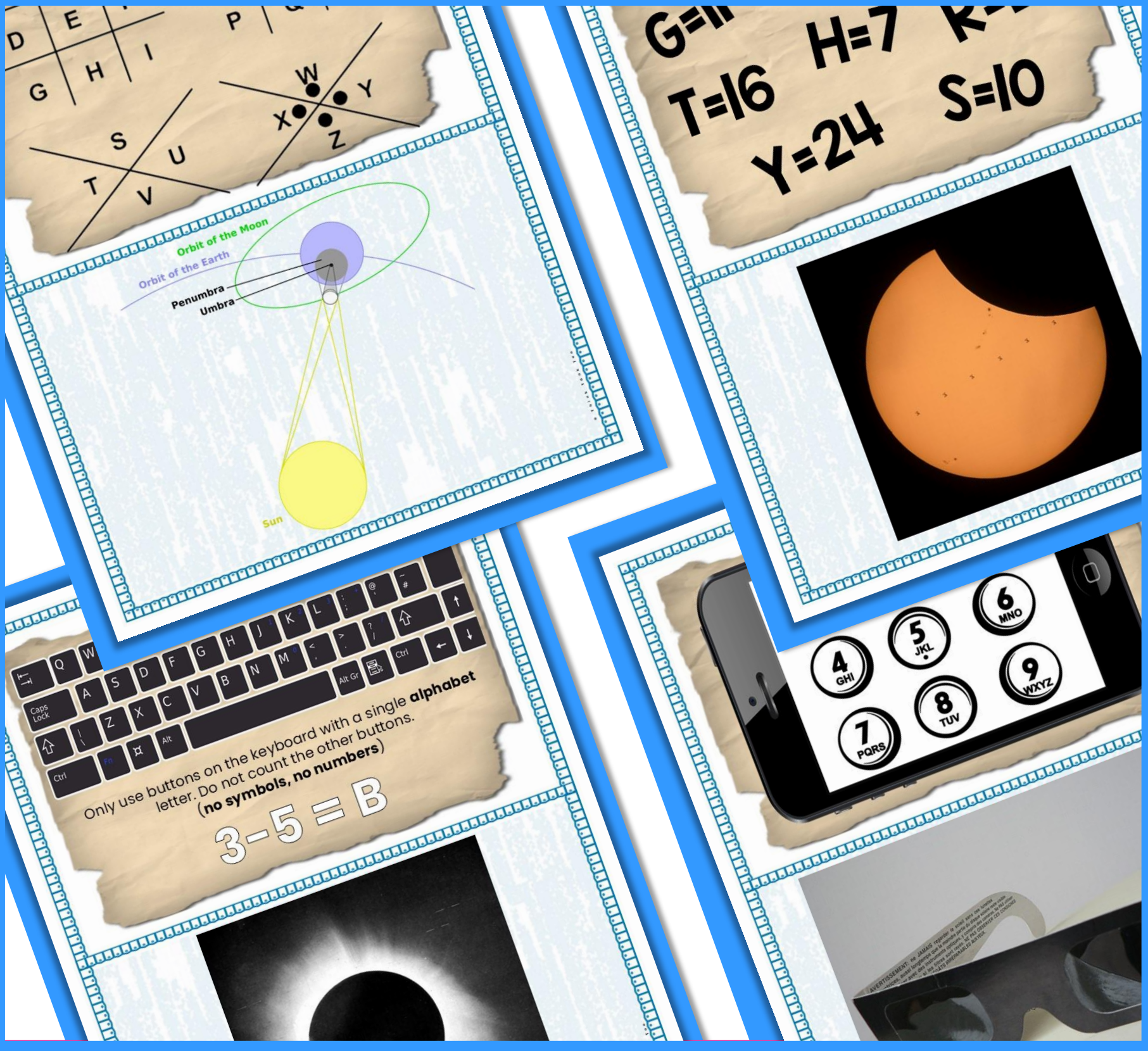




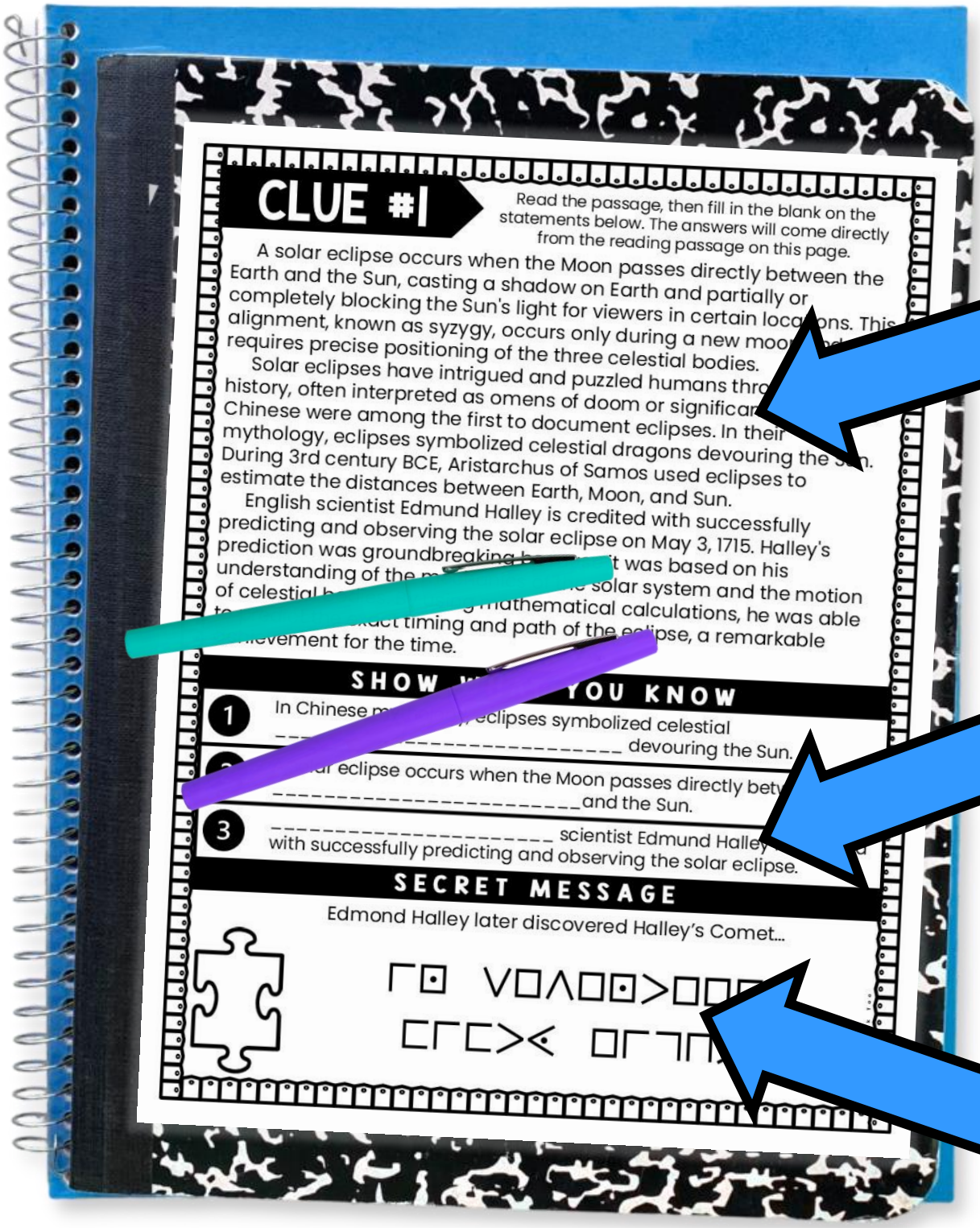
4 CLUE CARDS


CLUE #2
Read the passage below, then
False statements. Circle T for True or
The 1919 eclipse, observed by Sir Arthur Eddington, offered proof of
Einstein's Theory of General Relativity. Einstein's theory was published
in 1915. Observations during the eclipse showed that starlight bent
around the Sun's gravitational field, validating the concept of space-
time curvature.
Solar eclipses can be
alignment of the Earth,
when the Moon
this event, the Sun's
Totality, the
though most
As the
where the
is known as
total solar
In a
This
common
KNOW
main types.
covers part of
1 Solar eclipse
2 In a partial solar eclipse, the
the Sun's disk.
3 Einstein's Theory of Relativity was published in 1927.
SECRET MESSAGE
A total eclipse happens...
22 3 26 11 7 23 24 2 6 2 22 24
2 21 11 7 16 2 2 19 5 3 19 16 7
CLUE #1
Read the passage, then
statements below. The answers
from the reading passage on this
A solar eclipse occurs when the Moon passes directly between the
Earth and the Sun, casting a shadow on Earth and partially or
completely blocking the Sun's light for viewers in certain locations. This
alignment, known as syzygy, occurs only during a new moon and
requires precise positioning of the three celestial bodies.
Solar eclipses have intrigued and puzzled humans throughout
history, often interpreted as omens of doom or significant events. The
Chinese were among the first to
mythology, eclipses symboliz
During 3rd century BCE, Aris
estimate the distances bet
English scientist Ed
predicting and obser
prediction was grou
understanding of th
of celestial bodies.
to predict the exa
achievement for
1 In Chine
2 A solar eclipse oc
3 with successfully predicting and observing the solar eclipse.
SECRET MESSAGE
Edmond Halley later discovered Halley's Comet...
CLUE #3
annular eclipse oc
gee) in its orbit and
of fire" effect, where
antumbra is the are
ect is observed.
Hybrid eclipses are ra
clipses depending on t
Earth's curvature and the
during its orbit.
Solar eclipses are pos
Sun is about four-hundr
about four-hundred time
Sun appearing roughly t
perfectly during a new m
creating a solar eclipse.
The average number
240, a figure that include
these eclipses are not ev
SHOW WHAT YOU KNOW
1 The average number of solar eclipses per century is approximately
_____.
2 The _____ is the area of shadow
beyond the umbra where this effect is observed.
3 Sun is about _____-hundred times larger than
the Moon.
SECRET MESSAGE
For most locations, the partial eclipse phase will last...
2-1 3-5 1-9 1-7 1-5
3-4 1-3 3-6 1-5 1-6
1-5 1-3 2-2
year.
is a p
eclips
mont
Wh
years
both
with
comp
1823, 1870, and 1935 each saw five solar eclipses.
SHOW WHAT YOU KNOW
T
T
1 The penumbra is the outer part of the shadow, where
the Sun is partially visible, resulting in a partial eclipse.
2 The umbra is the darkest part of the Moon's shadow.
3 The Moon's orbit is tilted by about thirty degrees
relative to Earth's orbit around the Sun.
SECRET MESSAGE
The total solar eclipse of 2017 crossed...
333 666 88 777 8 33 33 6
88.7777.
7777 8 2 8 33 7777

4 DECODERS


D E P Q
G H I
W Y
X Z
S U
T V
Orbit of the Moon
Orbit of the Earth
Penumbra
Umbra
Sun
T=16 H=7
Y=24 S=10
Only use buttons on the keyboard with a single alphabet letter. Do not count the other buttons.
(no symbols, no numbers)
3-5 = B
6 MNO
5 JKL
4 GHI
9 WXYZ
8 TUV
7 PQRS

READ & THINK



READ THE PASSAGE

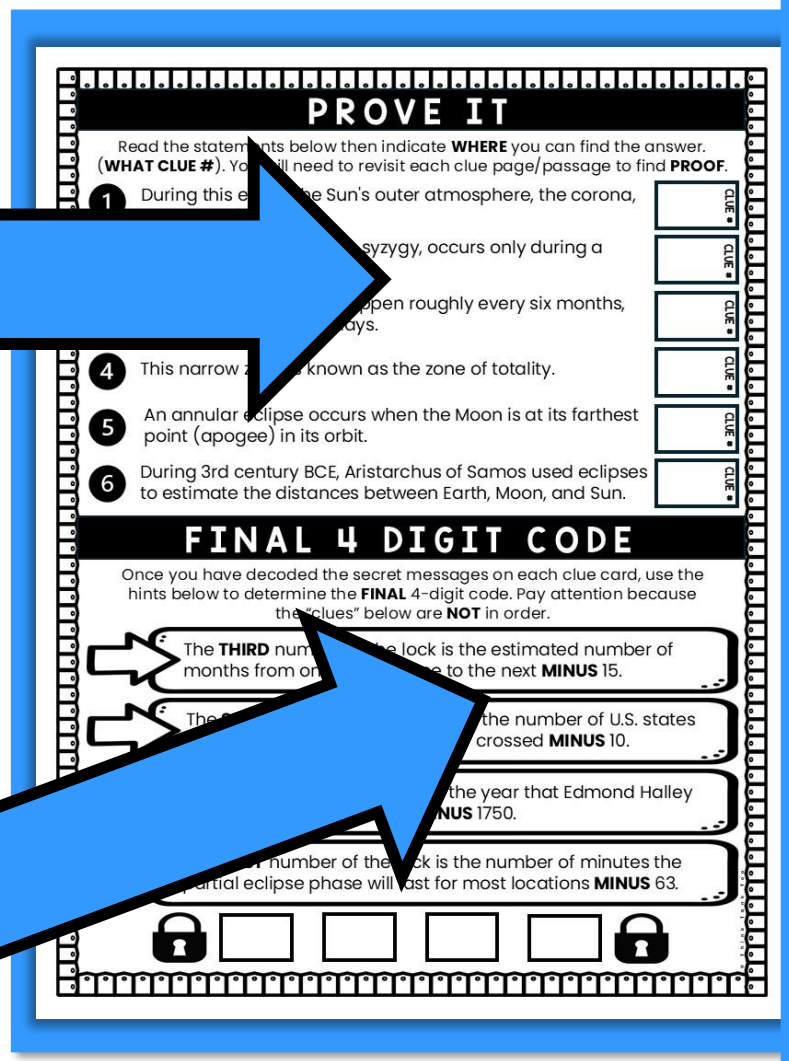
SHOW WHAT YOU KNOW

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.

© Think Tank Too





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