

PLANET VENUS

ESCAPE ROOM

A. None
B. 1
C. 2
D. 3

6 How many Earth days does one revolution of Venus take?

A. 37 Earth days
B. 225 Earth days
C. 176 Earth days
D. None of the above

How many times you used each letter answer (ABCD) to solve the 4-digit code and record it on your answer sheet.

2301 J 3201 N

sent the Venus Express MINUS 1999.

The FIRST number of the lock is the number of Earth days it takes Venus to make one rotation MINUS 240.

The THIRD number of the lock is the year Galileo discovered that Venus orbited the sun MINUS 1604.

Once you determine the 4-digit code, decide if the code uses all EVEN #s, all ODD #s or a combination of both.

ALL EVEN ALL ODD COMBO
J K P

40 5 7
6 8 9
Magellan 1968 Russians Germans Chinese

Venus's thick atmosphere makes it impossible to see the surface even in space. Despite being closer to the sun, about _____ spacecraft have visited Venus. What scientists have learned about the planet has been through ultraviolet cameras and radars. Americans were the first on the planet but _____ were the first to land on Venus with the Venera 7 spacecraft. The first successful mission to Venus took place on December 14, _____, however, it only lasted 23 minutes before it was destroyed by the conditions. From 1989 to 1994, the _____ Probe, launched by the US, orbited the planet and was able to map the surface in detail. In 2006, the European Space Agency sent the Venus Express to gather information.

Once you determine the 4-digit code, decide if the code uses all EVEN #s, all ODD #s or a combination of both.

ALL EVEN ALL ODD COMBO
B M

STATION 2: PARAGRAPHS

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. Paragraph numbers MAY be used more than one time or not at all. Use the directions below to reveal the 4-digit code and letter clue.

A Even though there are clouds, it is too hot to rain on Venus.

B In 1610, Galileo discovered that Venus orbited the sun.

C Maxwell Montes is the highest mountain on Venus, the size to Mount Everest.

D Unlike Earth and most of the planets, Venus rotates in the opposite direction.

STATION 3: TRUE OR FALSE

Read each statement below and determine if it is true or false. If the statement is true, color the coin on YOUR answer sheet 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 to reveal your letter clue. 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.

A 75 B 25 C 100 D 100 E 100 F 100

A. Sometimes, Venus is considered Earth's sister because its size, mass, and density are similar.

B. Olympus Montes is one of the largest volcanoes on Venus.

C. Similar to Earth, Venus has four seasons.

D. Venus can easily be seen from Earth.

VENUS

There are eight major planets that revolve around the sun. Venus, Earth, and Mars are called inner planets or terrestrial planets. They have a rocky surface and few or no moons. Venus is the sixth largest planet in our solar system. Earth, and the second closest planet to the sun. Venus can easily be seen from Earth, and is often called the "evening star" or "morning star". The morning star was first seen by the ancient Greeks. The word "Venus" would come soon after, Pythagoras, a Greek mathematician, was the first to name one planet. So, the goddess of love was named after the planet.

THINK TANK

STATIONS ACTIVITY

WHAT'S INCLUDED?

- ✓ READING PASSAGE
- ✓ 5 STATIONS
- ✓ TEACHER GUIDE
- ✓ ANSWER KEY
- ✓ STUDENT DIRECTIONS
- ✓ TEXT MARKING OPTION
- ✓ PROP SIGNS

STATION 1: FILL IN THE BLANK

Use your reading passage to determine the missing words in the paragraph below. Each missing word has a corresponding NUMBER. The 4-digit code for this station will be the NUMBER for each missing word, in the same order in which they appear in the paragraph. Then, record the clue LETTER on your answer sheet.

STATION 2: PARAGRAPHS

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. Paragraph numbers MAY be used more than one time or not at all. Follow the directions below to reveal the 4-digit code and letter clue.

STATION 3: TRUE OR FALSE

Read each statement below and determine if it is true or false. If the statement is true, color the coin on YOUR answer sheet 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 to reveal your letter clue. 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: COMBINATION

Use your reading passage to determine the combination to the 4-digit lock for this station. 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. There is room on your answer sheet to do the math.

STATION 5: MULTIPLE CHOICE

Answer each multiple-choice question below. Then, count the number of times you used each letter answer (ABCD) to reveal your 4-digit code. Letters may be used more than once or not at all. If a letter option is not used, put a zero in that box on your answer sheet.

ANSWER RECORDING SHEET

Record your answers for each station on this sheet. Then, use the directions below to determine final 4-digit ALPHA code. Ex: HBDR

STATION CODES

LETTER CLUE

STATION 1
→ CODE

STATION 2
A B C D E F

→ CODE

ENTER

1 2 3

TEACHER DIRECTION

- 1 Print the reading passage found on **pages 5-6** for EACH (front and back).
- 2 Print the answer recording sheet on **page 12** for each student group of students.

RECAP: Print pages 5, 6, and 12 for students.

THE MISSION



You have been assigned a top-secret mission of utmost importance. A notorious thief has stolen precious gems from a prominent lady, and intelligence reports suggest that they are hidden in a heavily guarded secret vault. In the bustling city of Oakville, Lady Victoria was renowned for her extraordinary

ABOUT THIS ACTIVITY

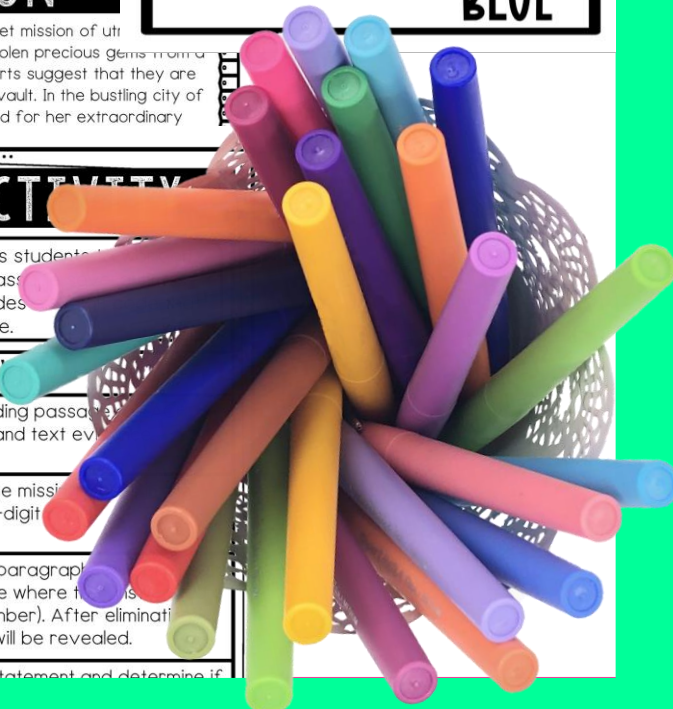
The reading passage in this packet allows students to practice comprehension skills after reading the passage. Each station includes a question that will reveal a letter clue.

	OVERVIEW
READING PASSAGE	Students will use the reading passage to practice comprehension skills after reading the passage. Each station includes a question that will reveal a letter clue.
STATION 1	Students will determine the missing words in the paragraph to reveal a 4-digit code.
STATION 2	Students will number the paragraphs on the reading passage to determine where the statements can be found (paragraph number). After eliminating the numbers, a 4-digit code will be revealed.
STATION 3	Students will read each statement and determine if it is true or false. If the statement is true, color the coin on the answer sheet 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 to reveal your letter clue.

STATION

5

BLUE



5 STATIONS

STATION 5: MULTIPLE CHOICE

Answer each multiple-choice question below. Then, count the number of times you used each letter answer (ABCD) to reveal the code. Letters may be used more than once or not at all. If an option is not used, put an X in that box on your answer sheet.

1 Which planet is NOT a terrestrial planet? _____ is the _____ closest to Earth.

A. Saturn
B. Venus
C. Mercury
D. Mars

2 What was the first satellite launched by the United States? _____ moons does Earth have?

A. Hesperus
B. Copernicus
C. Pythagoras
D. Phosphorus

3 How many Earth days does it take Venus to complete one orbit around the Sun?

A. 1
B. 2
C. 54
D. 243

Count how many times you used each letter answer (A, B, C, D) to determine the 4-digit code and record it on your answer sheet.

ANSWER RECORDING SHEET

Record your answers for each station on this sheet. Then, use the directions below to determine final 4-digit ALPHA code. Ex: HBDR

STATION	STATION CODES	LETTER
STATION 1	→ [] [] [] [] [] CODE	
STATION 2	→ A B C D E F CODE	
STATION 3	→ A 75 B 25 C 50 D 100 E 100 F 75 G 50 H 25 CODE	
STATION 4	→ [] [] [] [] [] CODE	
STATION 5	→ 1 2 3 4 5 6 CODE	

Do your math in this area:

→ A# [] B# [] C# [] D# [] CODE

STATION 4: COMBINATION

Use your reading passage to determine the combination to the 4-digit lock for this station. 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. There is room on your answer sheet to do the math.

1. The LAST number of the lock is the same as the percent of carbon dioxide in the atmosphere of Venus. (Venus is 96% CO₂)

2. The SECOND number of the lock is the same as the year the European Space Agency launched the Venus Express mission in 1999.

3. The third number of the lock is the same as the number of moons Venus has. (Venus has 0 moons)

4. The first number of the lock is the same as the number of Earth days it takes Venus to complete one orbit around the Sun. (243 days)

Once you have your 4-digit code, decide if the code uses all EVEN #s, all ODD #s or a combination of both.

→ ALL EVEN ALL ODD COMBO

STATION 1: FILL IN THE BLANKS

Use your reading passage to determine the missing word in each paragraph below. Each missing word has a corresponding NUMBER. The 4-digit code for this station will be the NUMBER of each missing word in the order in which they appear in the paragraphs. The code will be recorded on your answer sheet.

1 Venus's surface is so hot that it is possible to melt lead. _____ space scientists learned about Venus from ultraviolet cameras and _____ first on the planet but _____ we sent spacecraft to Venus to see it up close. On December 4, 1979, the Soviet Union launched the Venera 9 lander which landed on Venus and sent back the first photos. From 1989 to 1993, the _____ Probe orbited the planet and was able to map the surface in detail. In 2006, the European Space Agency sent the Venus Express to gather information about the planet.

2 _____ is the only planet in our solar system that has a retrograde rotation, meaning it rotates in the opposite direction of its orbit around the Sun.

3 _____ is the only planet in our solar system that has a thick atmosphere of carbon dioxide.

4 _____ is the only planet in our solar system that has a surface temperature that is hot enough to melt lead.

5 _____ is the only planet in our solar system that has a surface temperature that is hot enough to melt lead.

6 _____ is the only planet in our solar system that has a surface temperature that is hot enough to melt lead.

7 _____ is the only planet in our solar system that has a surface temperature that is hot enough to melt lead.

8 _____ is the only planet in our solar system that has a surface temperature that is hot enough to melt lead.

9 _____ is the only planet in our solar system that has a surface temperature that is hot enough to melt lead.

Once you determine the 4-digit code, decide if it uses all EVEN #s, all ODD #s or a combination of both.

→ ALL EVEN ALL ODD COMBO

B H M

STATION 3: TRUE OR FALSE

Read each statement below and determine if it is true or false. If the statement is true, color the coin on YOUR answer sheet that matches the statement. If the statement is false, cross out that coin. Once you are finished coloring, the TRUE coin values will add up to a 4-digit code. One digit will be provided for you. The other three digits will be determined by the first box, the second box, and the third box.

A 75 B 25 C 50 D 100

A. Some scientists believe that Venus is Earth's sister planet because of its size, mass, and composition.

B. Olympus Mons is one of the largest volcanoes in the solar system.

C. Venus has a thick atmosphere of carbon dioxide.

D. Venus is a terrestrial planet meaning it is solid and made of rocks.

After shading the coins on your answer sheet, add the values of the TRUE statements to get the final total.

→ 300 350 3

G D

STATION 2: PARAGRAPHS

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. Paragraph numbers MAY be used more than once or not at all. Follow the directions below to determine the 4-digit code and letter clue.

A Even though there are clouds, it is too hot to rain on Venus.

B In 1610, Galileo discovered that Venus orbits the sun.

C Maxwell Montes is the highest mountain on Venus, similar in size to Mount Everest on Earth.

D Unlike Earth, Venus rotates in the opposite direction of its orbit around the sun.

E Venus' carbon dioxide atmosphere is as thick as Earth's.

F There are eight major planets that revolve around the sun.

1 ELIMINATE the highest and lowest used paragraph numbers and record the remaining 4-digit code on your answer sheet. 2 Decide which paragraph number was NOT used as a CODE answer.

→ NO 6 NO 2 NO 4

L C W

STATIONS

ABOUT THIS ACTIVITY

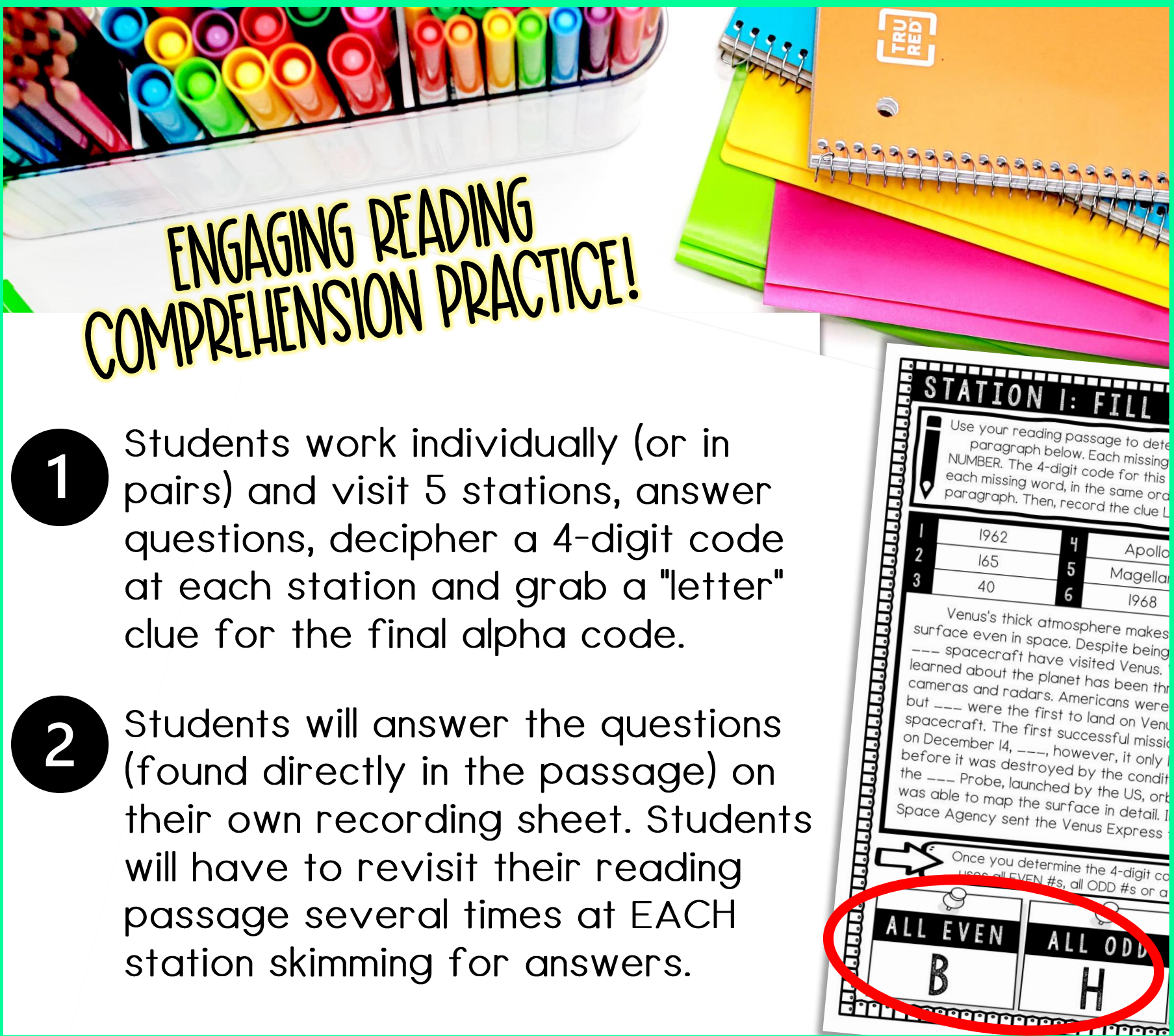
Reading passage in this packet allows students to work on comprehension skills after reading the passage several times searching for evidence. Each station includes a 4-digit code that will reveal a letter clue.

	OVERVIEW
READING PASSAGE	Students will use the reading passage at EACH station seeking answers and text evidence.
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 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 "ABCD" answer.
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. (This will increase completion time)

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**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 5 stations, answer questions, decipher a 4-digit code at each station and grab a "letter" clue for the final alpha code.
- 2 Students will answer the questions (found directly in the passage) on their own recording sheet. Students will have to revisit their reading passage several times at EACH station skimming for answers.

STATION 1: FILL

Use your reading passage to determine the missing word in each paragraph below. Each missing word is represented by a 4-digit code. The 4-digit code for this word is: **1 2 3 4**. Each missing word, in the same order as the paragraph. Then, record the clue L

1	1962	4	Apollo
2	165	5	Magellan
3	40	6	1968

Venus's thick atmosphere makes it difficult to see the surface even in space. Despite being --- spacecraft have visited Venus. --- learned about the planet has been through cameras and radars. Americans were but --- were the first to land on Venus with a spacecraft. The first successful mission was on December 14, ---, however, it only lasted for a few months before it was destroyed by the conditions. The --- Probe, launched by the US, orbited Venus and was able to map the surface in detail. In 1978, the Space Agency sent the Venus Express.

Once you determine the 4-digit code, use the following key to find the letter clue.

ALL EVEN	ALL ODD
B	H

BENEFITS

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



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

USE FOR:



ANTICIPATORY SETS



UNIT REVIEW



EARLY FINISHERS



STATIONS



REWARD ACTIVITY



CENTERS



SUB PLANS



PARTNER WORK



ENRICHMENT

