

# PLANET NEPTUNE

## ESCAPE ROOM

**Station 1: Multiple Choice**

6 Who discovered Neptune as a planet in 1846?

- A. Johann Galle
- B. John Couch Adams
- C. Urbain Le Verrier
- D. All of the above

**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.

**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.

**Planet Neptune**

Neptune is the eighth and most distant planet in the solar system. It is the fourth largest planet and the furthest from the sun. In Roman mythology, Neptune is the god of the sea due to its blue color. Neptune is the darkest night.

There is some controversy about who discovered Neptune. Some think it was Urbain Le Verrier, but he thought it was a star. John Couch Adams first determined that Uranus was being pulled by another planet. So, they assumed Neptune was the first planet to be discovered. Adams and Le Verrier understood that Neptune had the largest moon (Triton) and the strongest winds.

**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	→	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	CODE
-----------	---	----------------------	----------------------	----------------------	----------------------	------

A	B	C	D	E	F	
---	---	---	---	---	---	--

STATION 2	→	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	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.

# STATION

# 5

# BLUE

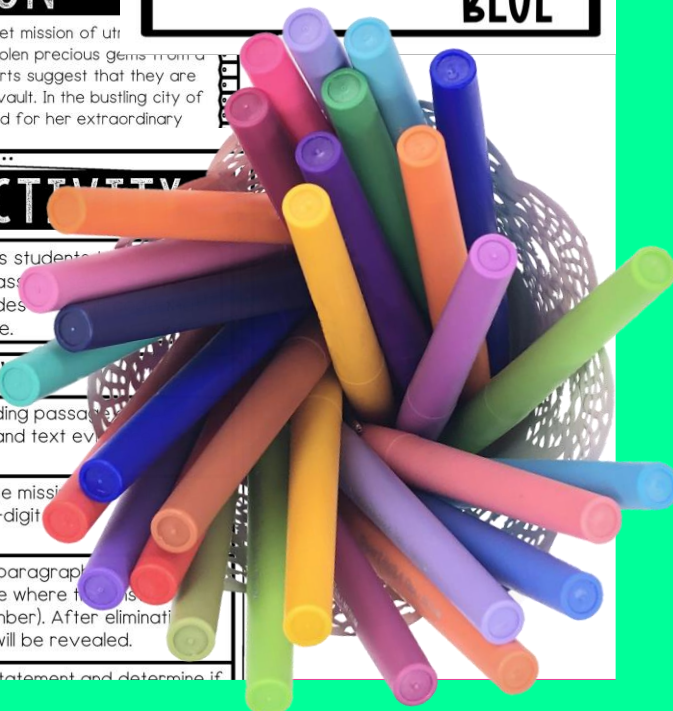
## THE MISSION

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 their comprehension skills after reading the passage. Students will be searching for evidence. Each station includes a question 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 word in the paragraph to reveal a 4-digit code.
STATION 2	Students will number the paragraphs in the reading passage to determine where the missing words can be found (paragraph number). After eliminating the incorrect numbers, a 4-digit code will be revealed.
STATION 3	Students will read each statement and determine if it is true or false.





# 5 STATIONS

## STATION 5: MULTIPLE CHOICE

Answer each multiple-choice question below. Then, count how many 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 gas giant?  
 A. Jupiter  
 B. Neptune  
 C. Mercury  
 D. Saturn

2. How many of the Earth year does Neptune take to orbit the Sun?  
 A. 3  
 B. 14  
 C. 49  
 D. At least 72

3. Due to method of discovery, what color do you think Neptune is?  
 A. Red  
 B. Blue  
 C. Green  
 D. Yellow

Count how many times you used each letter answer 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	→ [ ] [ ] [ ] [ ] [ ]	[ ]
STATION 2	→ A B C D E F	[ ]
STATION 3	→ A 75 B 25 C 50 D 100 E 100 F 75 G 50 H 25	[ ]
STATION 4	→ [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	[ ]
STATION 5	→ 1 2 3 4 5 6	[ ]

Do your math in this area:

→ A# [ ] B# [ ] C# [ ] D# [ ]

## 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 year that was discovered.

2. The SECOND number of the lock is the number of times Neptune is ...

3. The lock is the upper ...

4. The lock is at ...

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

## 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 paragraph. The code will be a LETTER on your answer sheet.

1. ... 56 ...  
 2. ... 1980s ...  
 3. ... fire ...

4. ... Naiad ...  
 5. ... 1940s ...  
 6. ... 14 ...

7. ... Gany ...  
 8. ... wa ...  
 9. ... 2 ...

Neptune has many more moons than any other planet in the Solar System. Triton is the largest moon and orbits in the opposite direction of the other moons. The moons are named after the moons of the planet Uranus. The moons of Neptune have a nitrogen atmosphere. The moon Triton was discovered in 1989 by the Hubble Space Telescope. The rings of Neptune are smaller and less visible than the rings on other planets and were not discovered until the late 1970s.

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    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 that question. If the statement is false, cross out that coin. Once you are finished coloring the coins, add up the TRUE coin values to determine the final total. One digit of the code will be provided for you.

A 75  
 B 25  
 C 50  
 D 100

A. The planet Neptune is made up of water, ammonia, and methane.  
 B. Neptune was the first planet discovered using a telescope.  
 C. Neptune is the only planet in the Solar System that has a ring system.  
 D. The rings of Neptune are made of ice and rock.  
 E. Neptune is the only planet in the Solar System that has a ring system.  
 F. Neptune is the only planet in the Solar System that has a ring system.  
 G. Neptune is the only planet in the Solar System that has a ring system.  
 H. Similar to all the gas giants, Neptune does not have a solid surface.

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

300    350    400

G    D    W

## 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. Neptune is the second largest of the four gas giants which also include Jupiter, Saturn, and Uranus.  
 B. Neptune spins, rotates, quickly and it only takes 16 Earth hours.  
 C. The strongest winds in the Solar System are on Neptune.  
 D. Neptune was discovered in 1846 by the sea due to its blue appearance.  
 E. Neptune also has a ring system which is 27 times stronger than Saturn's.  
 F. The upper atmosphere of Neptune contains about 80% hydrogen and 19% helium.

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 2    NO 4    NO 5

L    C    W



# STATIONS

## ABOUT THIS ACTIVITY

The 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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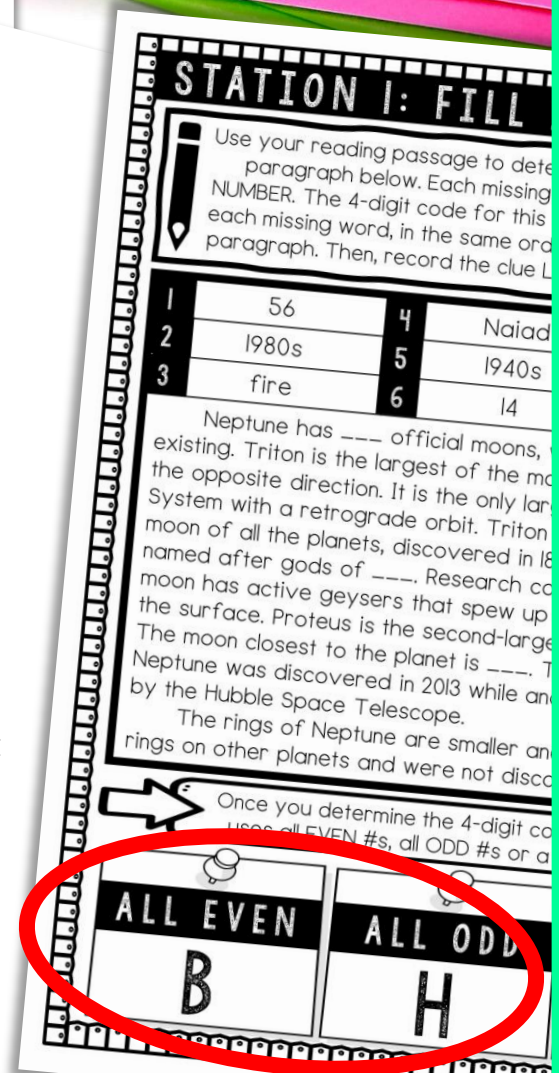
**STUDENTS WILL  
USE THE SAME  
READING  
PASSAGE AT  
EACH STATION  
SEEKING  
ANSWERS AND  
TEXT EVIDENCE.**

# 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 NUMBER. The 4-digit code for this station is formed by the numbers for each missing word, in the same order as they appear in the passage. Then, record the clue L

1	56	4	Naiad
2	1980s	5	1940s
3	fire	6	14

Neptune has --- official moons, --- existing. Triton is the largest of the moons and orbits in the opposite direction. It is the only moon in the Solar System with a retrograde orbit. Triton is the largest moon of all the planets, discovered in 1846 and named after gods of ---. Research conducted in the 1980s revealed that the moon has active geysers that spew up to 5 km into the surface. Proteus is the second-largest moon of Neptune. The moon closest to the planet is ---. Triton was discovered in 1846 while observing Neptune was discovered in 2013 while being observed by the Hubble Space Telescope.

The rings of Neptune are smaller and more numerous than the rings on other planets and were not discovered until 1979.

Once you determine the 4-digit code, use the following key to determine 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**

