

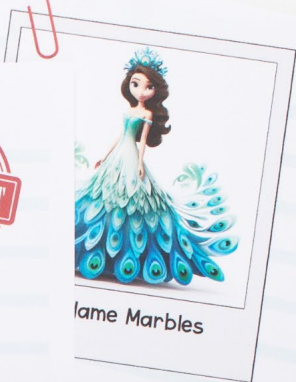
# THE DISAPPEARANCE OF THE ENCHANTED ECHO IN PATTERN PALACE



Number & Shape Patterns







lame Marbles

ttens bright, my dress



# SUPER STUDENT SLEUTHS NEEDED! Step into the Magical World of Mysteries!

Students won't realize they are practicing key math and problem-solving skills! They will be immersed in the storytelling with original videos, letters, and puzzles.

Learn more!



## Certificate of Competition

This Certificate is awarded to

For solving "The Disappearance of the Enchanted Echo in Pattern Palace".

Justin Time

Misty Meaner

magicolearning.com

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SUS



Baker Bumble



Madame Marbles



The Twirly Twins

...excitement took way, piled flour  
...echo lay. The  
...ence, it was me who stole, but now, I'll clear the path and make it whole.

...my name, with lantern aglow, but I promise, the silence isn't my flow.



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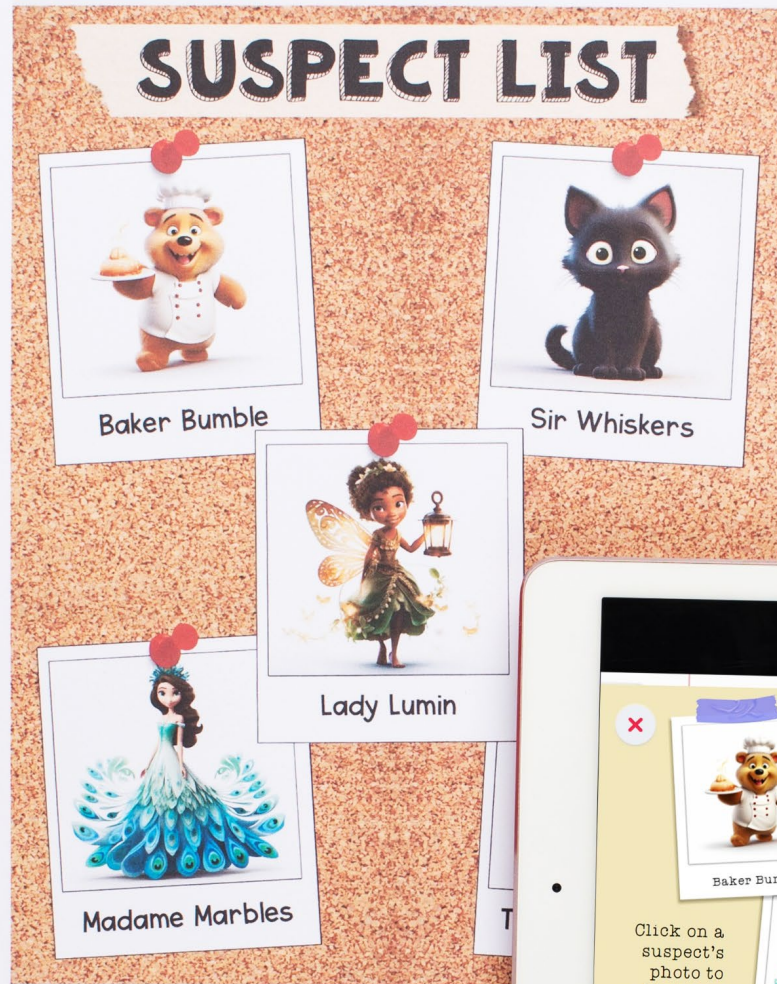


# Be the Detective!

Unlock clues to eliminate suspects.

Once students find the culprit, they can scan the videos or use the “case file” to self-correct their work.

Learn more!



# MagiCore Web <sup>®</sup>

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Learn more!



Clue #1  
Question 3

Letter	Shape	Letter	Shape
A	△	N	○
B	△	O	○
C	○	P	○
D	△	Q	○
E	○	R	△
F	△	S	△
G	□	T	□
H	+	U	△
I	○	V	△
J	○	W	☆
K	△	X	□
L	○	Y	○
M	○	Z	○

Decoder

Letter T

What does the first clue spell?  
Use the clue to cross off a suspect on the Suspect List tab.

O T

Continue

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Pattern Palace  
Clue #1 - Level 1

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Pattern Palace  
Clue #2 - Level 2

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Pattern Palace  
Clue #3 - Level 3

Directions: Solve each number sequence. After solving, find the letter that corresponds to the answer in the Decoding Key below. Write down each letter to reveal the first clue!

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Pattern Palace  
Clue #4 - Level 1

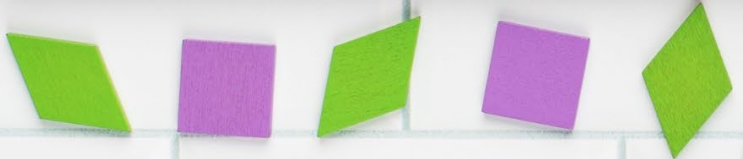
Directions: Solve each number sequence. After solving, find the letter that corresponds to the answer in the Decoding Key below. Write down each letter to reveal the first clue!

Sequence	Answer	Letter
51, 43, ____, 27, 19		
123, ____, 113, 108, 103		
____, 677, 675, 673, 671		
564, 554, 544, 534, ____		
802, ____, 796, 793, 790		
237, 217, 197, ____, 157		
79, ____, 71, 67, 63, 59		
535, 435, 335, 235, 135, ____		

**Decoding Key**



779 = A    35 = N  
1,000 = B    18 = O  
19 = C    160 = P  
64 = D    17 = Q  
88 = E    480 = R  
6 = F    384 = S  
427 = G    679 = T

**Your First Clue:**  
Write down the letters you found in the order you solved the problems.  
What does it spell? Use the clue to cross off a suspect.






# 2 Versions

	<b>PDF</b> 	<b>MagiCore Web™</b> 
Format Type	Printable	Digital
Device	N/A	Any Device
Required Prep	Print & Go	Zero Prep
Student Answers	Printable Answer Pamphlet	In MagiCore Web
Self Correcting	Includes Answer Key	Self Correcting
Custom Videos	QR Codes	Embedded
Audio Readings	N/A	Contains Audio Readings
Navigation	N/A	Automatically Advancing
Extras	Printable "Case File"	Interactive Animation

- Print
- MagiCore Web™  
(Our most popular experience)

Learn more! 

# 2 Levels

  
From the Desk of Detective EchoQuest  
Dear Junior Detectives,  
I hope this letter finds you well and ready for an exciting adventure! My name is Detective EchoQuest, and I am the lead investigator at Pattern Palace. I've heard of your brilliant minds and sharp skills, and I am seeking your help in solving a most peculiar mystery.  
Pattern Palace is a magical museum where echoes sing the secrets of patterns. I've heard of your brilliant minds and sharp skills, and I am seeking your help in solving a most peculiar mystery. Pattern Palace is a magical museum where echoes sing the secrets of patterns. I've heard of your brilliant minds and sharp skills, and I am seeking your help in solving a most peculiar mystery. Pattern Palace is a magical museum where echoes sing the secrets of patterns. I've heard of your brilliant minds and sharp skills, and I am seeking your help in solving a most peculiar mystery.



Click to select your difficulty level.

 Amateur Investigator

 Seasoned Sleuth

 Expert Detective

**TEACHER INFO**





# Decode Clues

Directions: Look at the pattern for each problem. Identify the next shape in the pattern. After solving, find the letter that corresponds to the answer in the Decoding Key below. Write down each letter to



Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Pattern Palace

### Clue #2 - Level 2

Directions: Solve each number sequence. After solving, find the letter that corresponds to the answer in the Decoding Key below. Write down each letter to reveal the first clue!

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Pattern Palace

### Clue #3 - Level 3

Directions: Solve each number sequence. After solving, find the letter that corresponds to the answer in the Decoding Key below. Write

Sequence
448, 112, ____, 7
10,935, 1,215, 135, ____,
4,459, 637, 91, ____,
____, 104, 832, 6,656
22, 110, ____, 2,750
6,480, 1,080, ____, 30
7, 14, ____, 56, 112
6, 48, ____, 3,072

**Decoding Key**

779 = A	28 = N
1,000 = B	15 = O
19 = C	160 = P
64 = D	17 = Q
88 = E	480 = R
6 = F	384 = S
427 = G	13 = T
308 = H	78 = U
180 = I	40 = V
42 = J	550 = W
34 = K	849 = X
354 = L	248 = Y
96 = M	25 = Z

**Your First**  
Write down the let  
What does it spell?

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Pattern Palace

### Clue #4 - Level 1

Directions: Solve each number sequence. After solving, find the letter that corresponds to the answer in the Decoding Key below. Write down each letter to reveal the first clue!

Sequence
51, 43, ____, 27, 19
123, ____, 113, 108, 103
____, 677, 675, 673, 671
564, 554, 544, 534, ____,
802, ____, 796, 793, 790
237, 217, 197, ____, 157
79, ____, 71, 67, 63, 59
535, 435, 335, 235, 135, ____,

**Decoding Key**

779 = A	35 = N
1,000 = B	118 = O
19 = C	160 = P
64 = D	17 = Q
88 = E	480 = R
6 = F	384 = S
427 = G	679 = T
308 = H	799 = U
75 = I	40 = V
42 = J	550 = W
34 = K	849 = X
524 = L	248 = Y
177 = M	25 = Z

**Your First C**  
Write down the letters y  
What does it spell? Use t

**Clue #4**

Letter	Shape	Letter	Shape
A	779	N	38
B	1,000	O	118
C	19	P	160
D	64	Q	17
E	88	R	480
F	6	S	384
G	427	T	679
H	308	U	799
I	75	V	40
J	42	W	550
K	34	X	849
L	524	Y	248
M	177	Z	25

Decoder

Letter

Letter

1, 19  n 5. 802, 799, 796, 793, 790

2, 103  o 6. 237, 217, 197, 177, 157

3, 671  t 7. 79, 75, 71, 67, 63, 59

533  8. 435, 335, 235, 135, 35

What does the final clue spell?  
to cross off a suspect on the Suspect List tab.

t \_\_\_\_\_



# Eliminate Suspects

TOP SECRET  
CONFIDENTIAL

Whiskers

Madame Marbles

Lady Lumin

ly glow  
e pala







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Review the clues. Who is responsible for the echo's silence?  
Drag the photo of the culprit into the folder.

 Baker Bumble	 Whiskers
 Lady Lumin	 The Twisty Twins
 Madame Marbles	 Whiskers

Clue #1 Not sir	Clue #2 not marbles
Clue #3 not twins	Clue #4 not lumin

ht, m  
e cause of silent  
as. here to

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CONFIDENTIAL

Dear detectives, I must confess my blunder. In the sweet whirl of pastries, I made a thunder. Excitement took over, and I lost my way, piled flour bags high, where the echo lay. The Enchanted Echo's silence, it was me who stole, but now, I'll clear the path and take it whole.

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