

# RESOURCE RESCUE CHALLENGE

Micah is on the hunt for the criminals responsible for the **Great Resource Heist of 2024**.



Resource thieves ransacked Micah's laboratory in their search for critical geologic resources that we need for our everyday lives. When they left, they locked Micah in her lab so she needs your help to find the culprits and recover the resources.

In order to find where the thieves have hidden the stolen resources, you must solve all 5 puzzles in order, from one to five. You must get your instructor to confirm that each puzzle is finished correctly before moving on to the next one. You may only work on one puzzle at a time.

**You will need to use Google Maps (or another online mapping app) for this activity!**

**MOST ANSWERS ARE SOMEWHERE IN THIS DOCUMENT  
SO READ CAREFULLY AND GOOD LUCK!**

**NORTH CAROLINA GEOLOGICAL SURVEY**

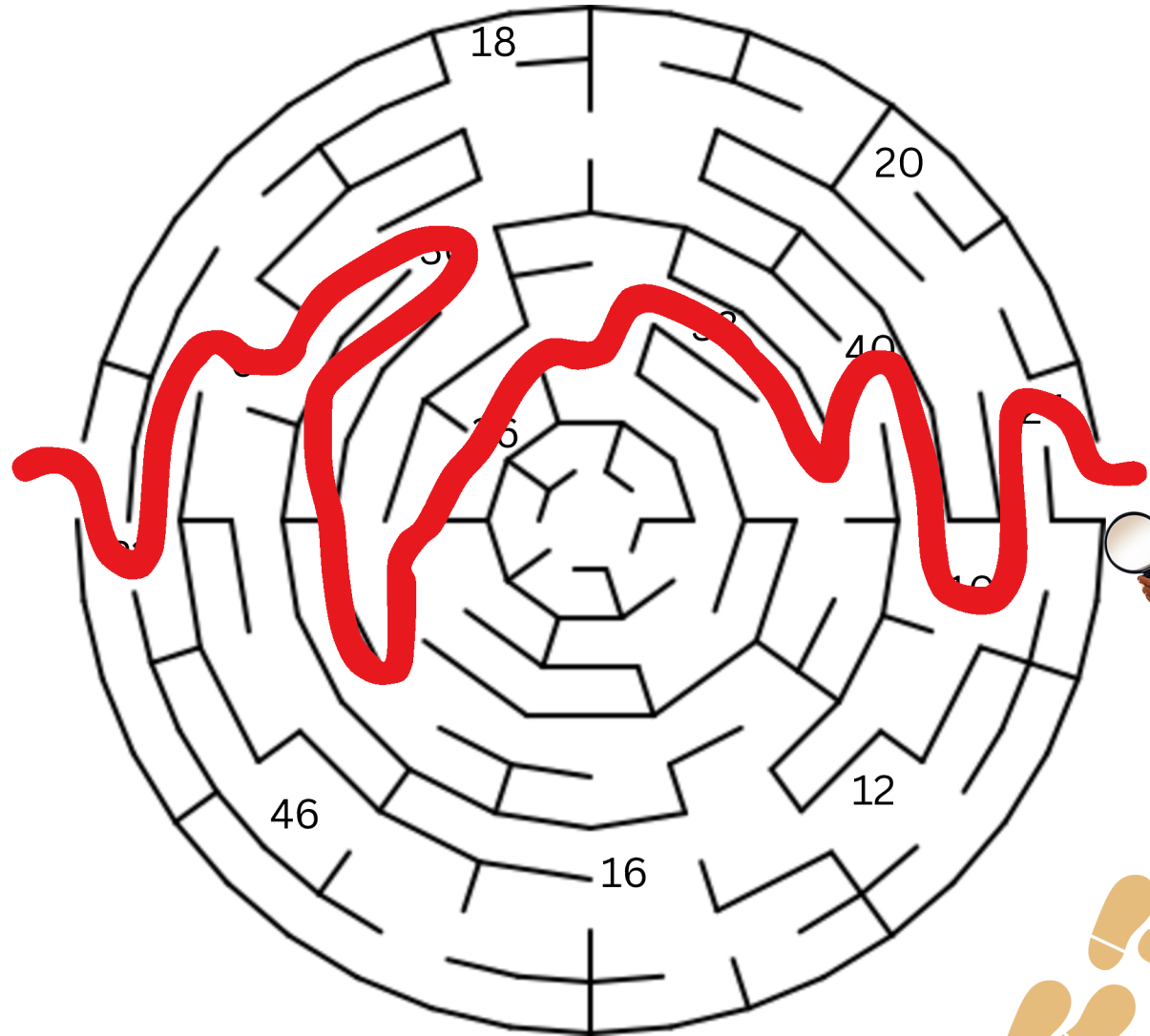
**PUZZLE 1  
ANSWER KEY**



# PUZZLE 2

## Answer Key

A	=	2
B	=	4
C	=	6
D	=	8
E	=	10
F	=	12
G	=	14
H	=	16
I	=	18
J	=	20
K	=	22
L	=	24
M	=	26
N	=	28
O	=	30
P	=	32
Q	=	34
R	=	36
S	=	38
T	=	40
U	=	42
V	=	44
W	=	46
X	=	48
Y	=	50
Z	=	52



Numbers Collected: **24, 10, 40, 38, 36, 30, 6, 22**  
Decoded Word: **LETS ROCK**

# PUZZLE 3

## Answer Key



**Mineral used in cell phone batteries (7 letters):**

Lithium

**Mineral used for cell phone vibration (6 letters):**

Nickel

**Mineral used in solar panels (7 letters):**

Arsenic

**Nutrient necessary for plants to produce proteins (8 letters):**

Nitrogen

**Mineral used in satellites (4 letters):**

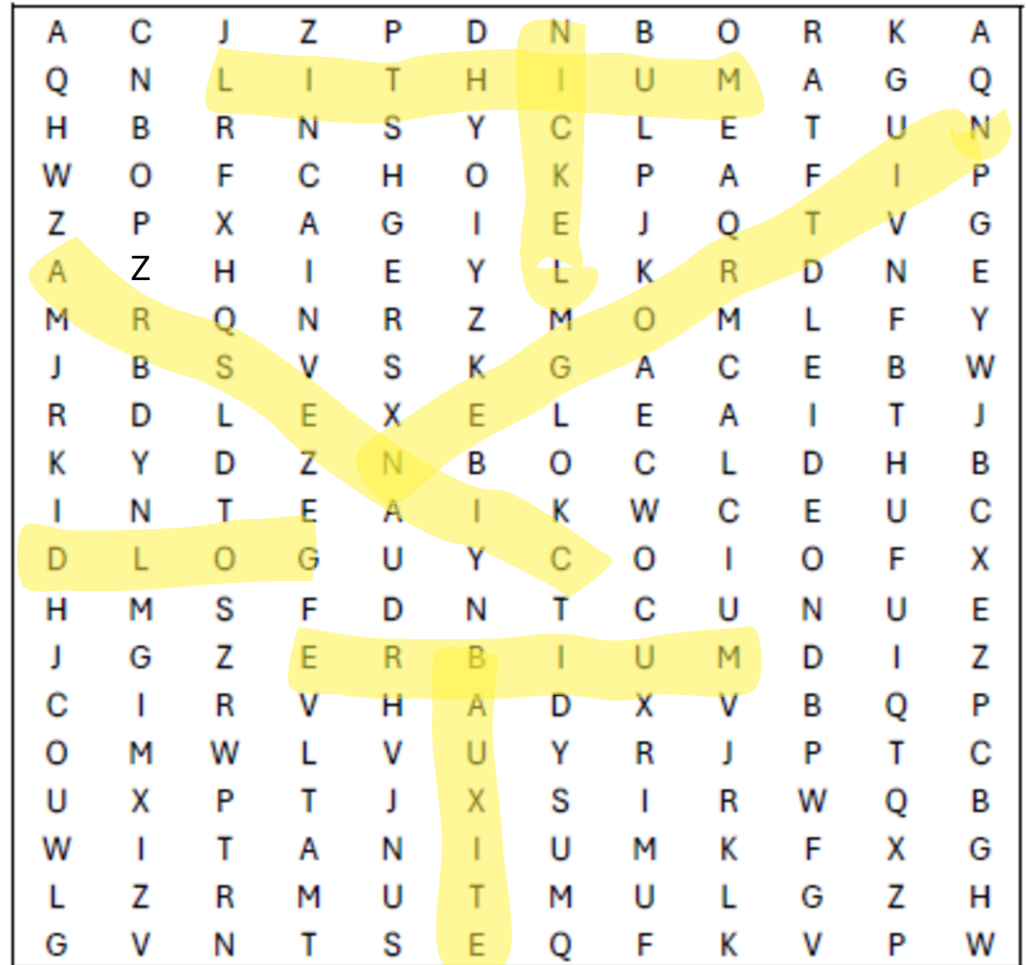
Gold

**Mineral used in LED lighting (7 letters):**

Bauxite

**Mineral used in lasers (6 letters):**

Erbium



Words can be forward, backward, across, down, or at an angle



**QUARTZ**



**SILICON**



**BAUXITE**



**NICKEL**



**BERYL**



**COBALT**

## **PUZZLE 4**

Answer Key

# PUZZLE 5

## Answer Key

1. **42.96437, -85.67142**
2. **25.54028, -81.37700**
3. **36.17257, -115.14892**
4. **36.99449, -78.89042**
5. **29.75956, -95.34503**
6. **39.76617, -86.16166**
7. **40.81317, -96.69920**
8. **34.74367, -92.30736**
9. **36.16269, -86.78800**
10. **41.87862, -87.64477**

City Number 1 Grand Rapids First Letter G

City Number 2 Orlando First Letter O

City Number 3 Las Vegas First Letter L

City Number 4 Durham First Letter D

City Number 5 Houston First Letter H

City Number 6 Indianapolis First Letter I

City Number 7 Lincoln First Letter L

City Number 8 Little Rock First Letter L

City Number 9 Nashville First Letter N

City Number 10 Chicago First Letter C

**WHERE ARE THE RESOURCES??** Gold Hill, NC

# THANK YOU!

With your help, Micah was able to recover all the stolen resources. She got her lab back in order and is even working on a new use for all that gold she hid from the thieves. Bigfoot, Frankenstein, Dracula, Freddy, Leprechaun, and Jason will not be stealing from Micah again...especially if she has all of you detectives on her side.

