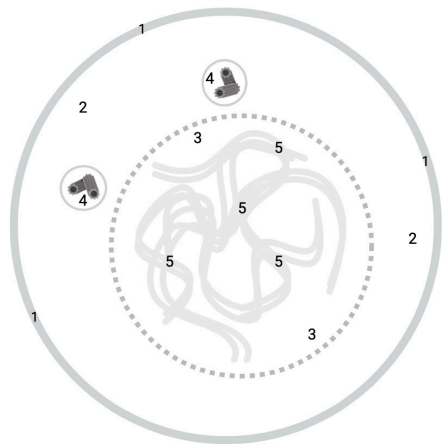
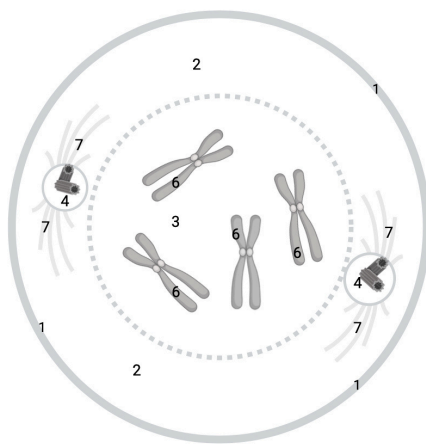


Name: \_\_\_\_\_

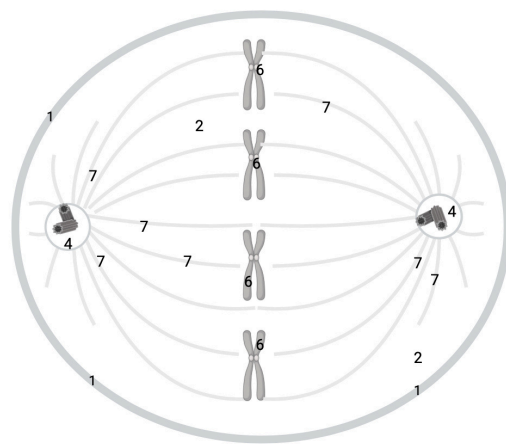
# Cell Structures During Mitosis



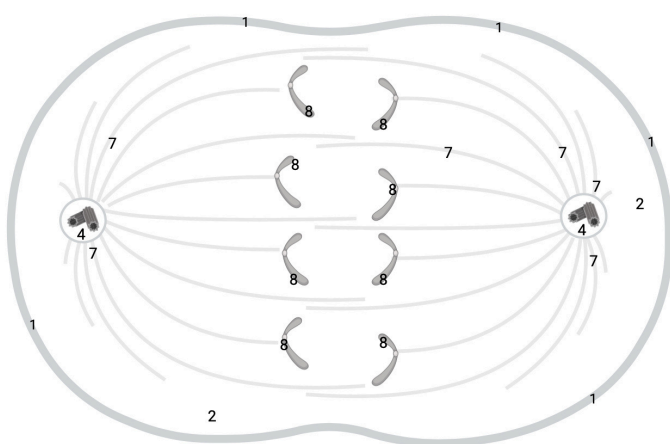
Interphase



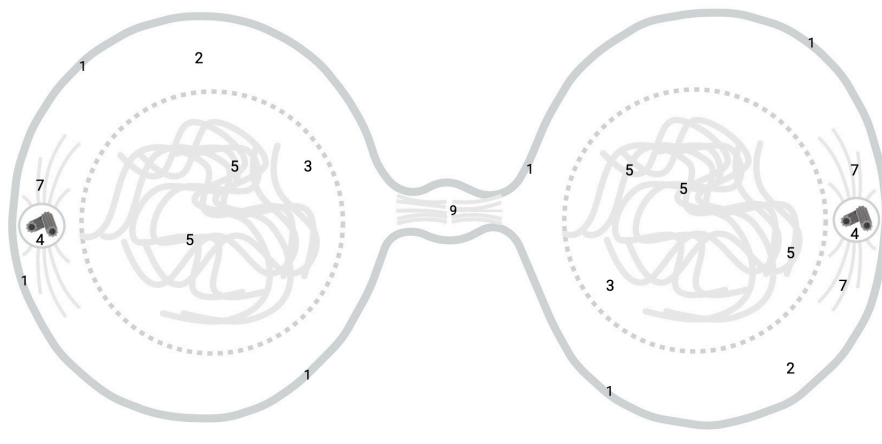
Prophase



Metaphase



Anaphase



Telophase

Color the following structures of a dividing cell by their number and write their names in the blanks. Record the color you use for each structure.

- 1 \_\_\_\_\_
- 2 \_\_\_\_\_
- 3 \_\_\_\_\_
- 4 \_\_\_\_\_
- 5 \_\_\_\_\_

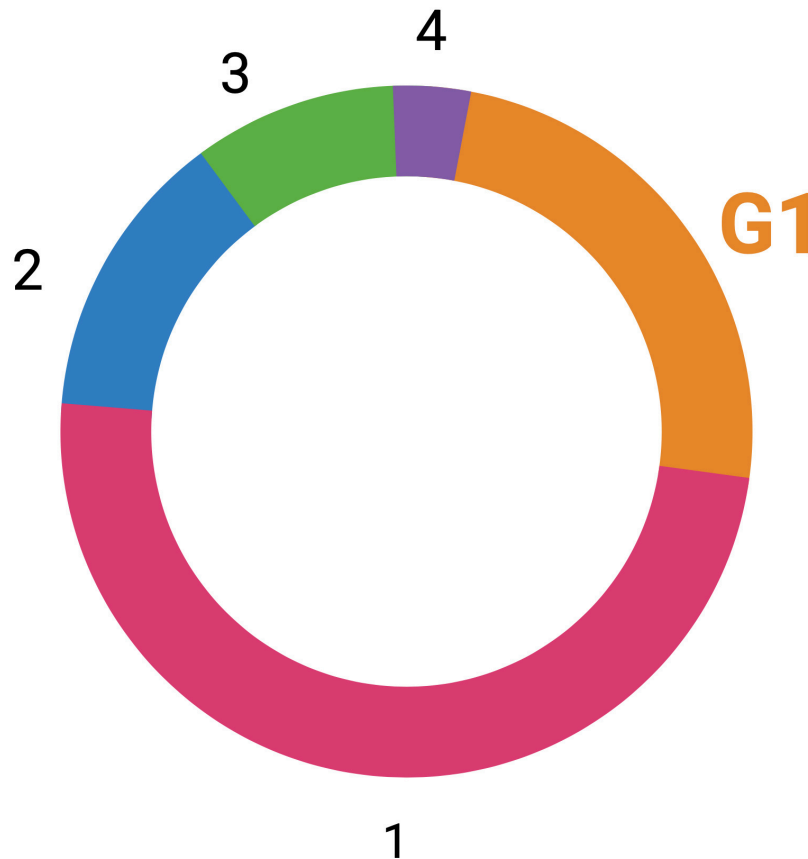
- 6 \_\_\_\_\_
- 7 \_\_\_\_\_
- 8 \_\_\_\_\_
- 9 \_\_\_\_\_

## Word Bank

Chromosome   Centriole   Nuclear Envelope   Spindle   Cell Membrane  
Cytoplasm   Sister Chromatid   Chromosome   Chromatin

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

# The Cell Cycle



Answer the following questions based on the image above.

1. Label the numbers 1 - 3 as the phases of the cell cycle that come after G1.
2. Circle the phase where DNA replicates.
3. What is happening in #4?
4. Draw an X on the phase(s) where the cell grows.

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

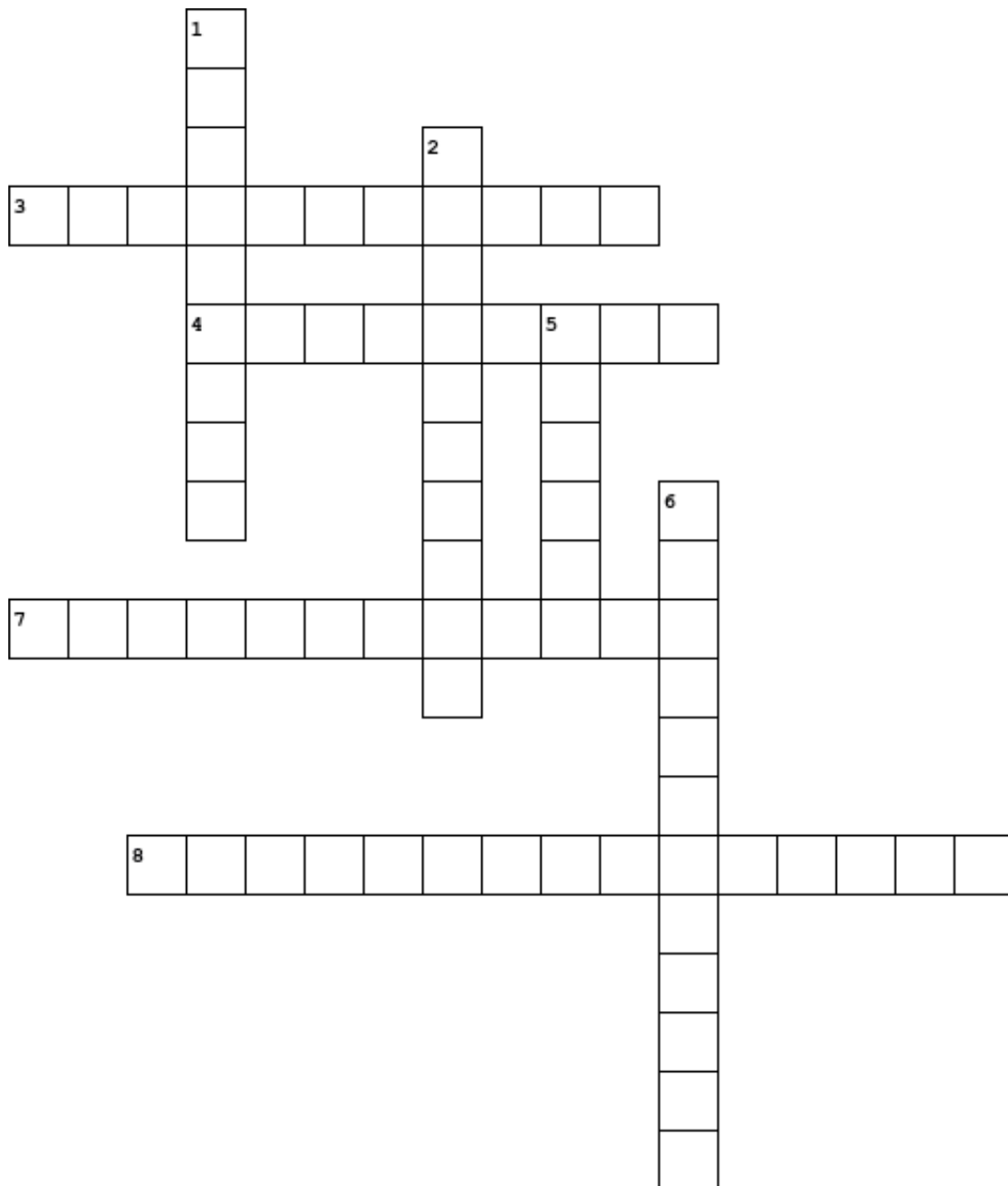
## Match the phase of mitosis with its description.

- |                |  |
|----------------|--|
| a. Metaphase   | 1. The chromatin in the nucleus forms into tightly packed chromosomes, and the nuclear envelope starts to break apart. |
| b. Anaphase    | 2. The phase where the cell isn't actively dividing; the "resting stage".  |
| c. Telophase   | 3. The division of the cytoplasm, resulting in two daughter cells.   |
| d. Prophase    | 4. The spindle pulls the separate sister chromatids to opposite sides of the cell.                                     |
| e. Interphase  | 5. Chromosomes line up in the center of the cell.  |
| f. Cytokinesis | 6. The chromatids unfold back into loose chromatin and two new nuclear envelopes reform.                               |

1. \_\_\_\_ 2. \_\_\_\_ 3. \_\_\_\_ 4. \_\_\_\_ 5. \_\_\_\_ 6. \_\_\_\_

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

# Cell Cycle Crossword



## Across

- 3. Cytoplasm divides
- 4. Programmed Cell Death
- 7. The product of mitosis (you get two of them)
- 8. Membrane that encloses the nucleus

## Down

- 1. One of two in a pair of condensed DNA
- 2. Region on chromosome where sister chromatids are glued together
- 5. Where you see a cell replicating its DNA
- 6. Mitosis

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

# Mitosis Word Search

Look for the **words listed below.**

R	R	N	B	K	J	C	P	N	G	B	K	W	P	W	O	U	S	E	C
D	M	E	J	S	V	A	R	H	G	T	Z	K	D	U	H	M	N	Q	C
F	C	P	A	T	E	L	O	P	H	A	S	E	H	N	M	V	O	I	G
O	J	L	B	L	C	F	P	J	D	C	D	V	N	Z	A	X	N	R	B
A	D	Q	V	C	I	X	H	S	V	C	R	L	E	D	N	W	F	J	C
E	N	W	S	I	Q	S	A	S	H	R	Q	X	Q	F	G	J	I	S	Y
I	C	A	D	V	E	N	S	U	R	E	Z	M	S	A	A	W	C	C	T
G	F	H	P	B	Y	F	E	P	D	C	Y	Y	H	I	V	E	T	I	O
N	V	F	Y	H	I	I	Y	S	I	M	V	M	S	U	S	M	I	E	P
L	D	Y	J	R	A	D	X	O	G	N	Q	Q	P	H	M	O	O	N	L
C	H	R	O	M	O	S	O	M	E	K	D	Q	X	F	J	O	T	C	A
N	C	L	R	W	S	L	E	J	S	W	M	L	B	T	G	J	R	I	S
G	E	A	M	I	F	P	G	L	X	L	K	Y	E	H	K	S	W	C	M
U	Z	S	H	Q	D	E	O	V	V	E	J	N	X	I	L	U	M	I	Y
A	A	S	W	U	E	L	O	I	R	T	N	E	C	I	O	E	D	C	S
G	N	I	X	U	C	B	K	I	T	P	Y	C	Y	F	Y	L	E	T	T
E	V	C	X	R	Z	B	A	Z	V	S	Y	C	T	X	L	C	D	I	E
K	P	S	N	I	N	T	E	R	P	H	A	S	E	Y	R	U	R	O	R
Q	W	G	R	T	G	C	L	K	Z	M	E	M	B	R	A	N	E	N	Y
X	Y	O	S	T	N	E	H	U	O	H	O	G	R	O	R	F	W	F	U

Prophase  
Cytoplasm  
Spindle  
Centriole

Telophase  
Nucleus  
Chromosome  
Anaphase

Interphase  
Membrane  
Mitosis  
DNA

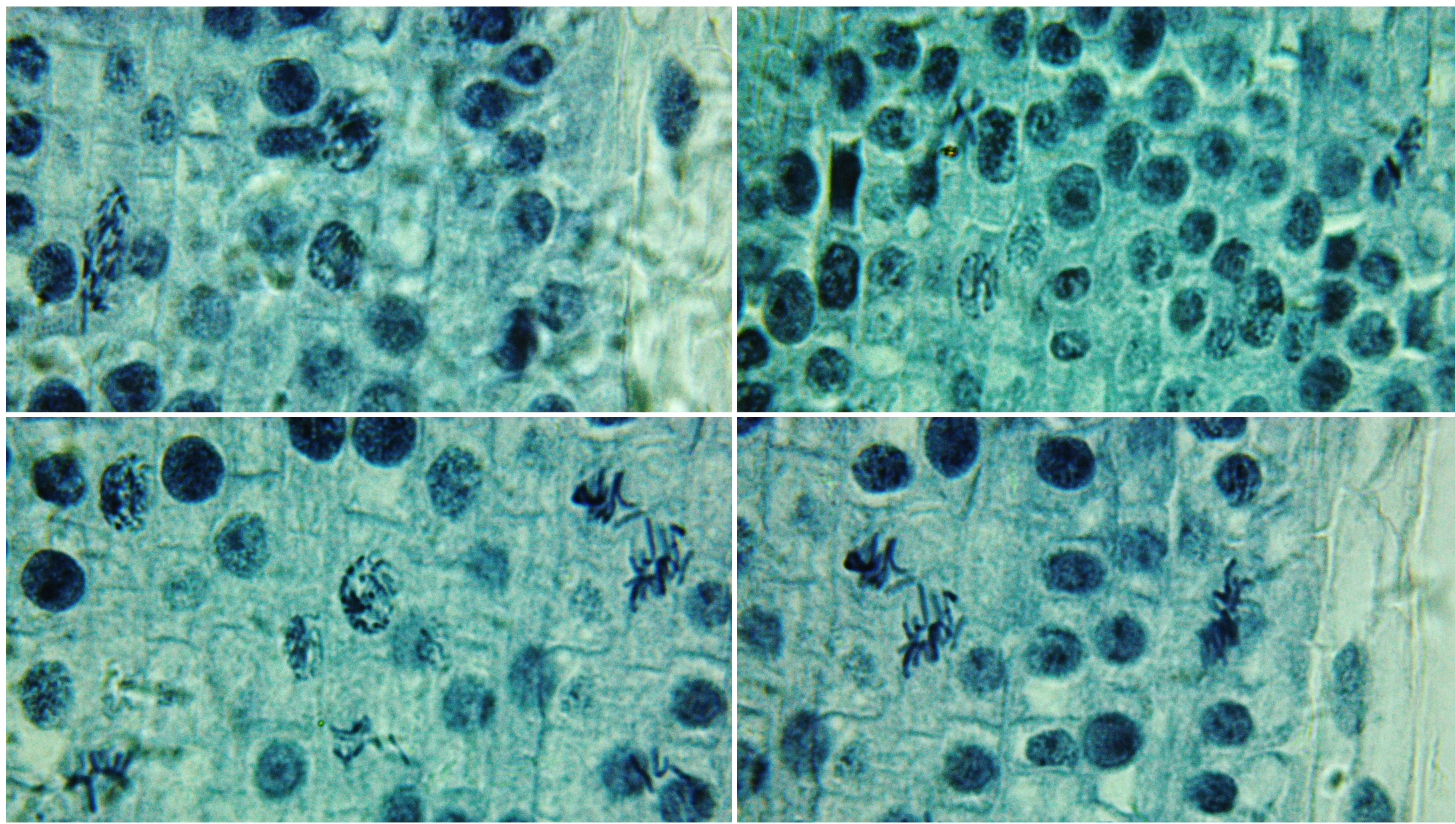


**PROMISE**



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

# Onion Root Activity



Above are images of an onion root under a microscope. Use these images to answer the following questions.

1. Draw a **circle** around a cell that's currently in **prophase**.
2. Draw a **square** around a cell that's currently in **metaphase**
3. Draw a **triangle** around a cell that's going through **anaphase**.
4. Draw a **heart** around a cell that's in **telophase**.

Why did you pick the cells that you did for each stage? Write your thoughts below.

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