

Name \_\_\_\_\_

Cell Cycle WS

As a cell grows, which increases faster, volume or surface area? (p. 143)

What problems does a cell encounter as it grows larger?

What will a cell do when it becomes too large?

The Role of Cell Division

Unicellular Organisms	
Multicellular Organisms	

What happens during the cell cycle? (p. 144)

Normal cellular activity takes place during \_\_\_\_\_. (p.147)

Division of the cell's nucleus is called \_\_\_\_\_.

Explain what happens in each of the following stages. Color code the drawing and your answer. (p.147-148)

	G <sub>1</sub>	(color)
	S	(color)
	G <sub>2</sub>	(color)
	Cell Division	(color)

What happens to chromatin during mitosis? (p.148)

After the chromosomes are replicated, the two copies are held together by a \_\_\_\_\_.

These two identical copies are known as \_\_\_\_\_.

Draw and label figure 3.4-7.

The Phases of Mitosis (p. 149)

Name of Phase	What Happens	Sketch of Cell in this Phase

How many phases are there in mitosis?

Is interphase part of mitosis?

What is the function of centrioles and spindle?

Division of the cytoplasm is called \_\_\_\_\_. (p. 151)

Describe the function of the cell plate.

When cells come into contact with other cells, they respond by \_\_\_\_\_. (p. 153)

What is a tumor? (p.155)

What is a carcinogen?