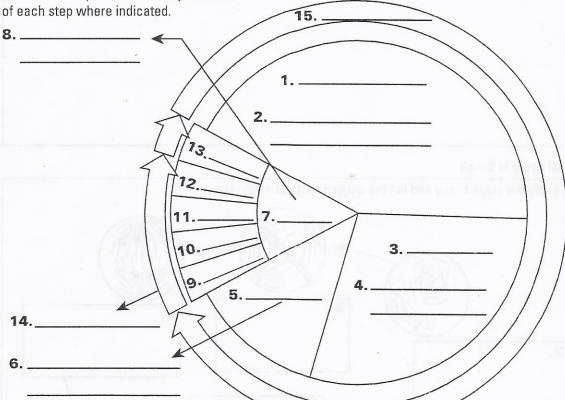
THE CELL CYCLE

5.1 **Power Notes**

Cell Cycle

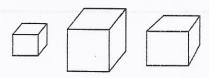
Label each step and list the major events



erent rates.

Cell size is limited.

Circle the cube with the greatest surface area-to-volume ratio.



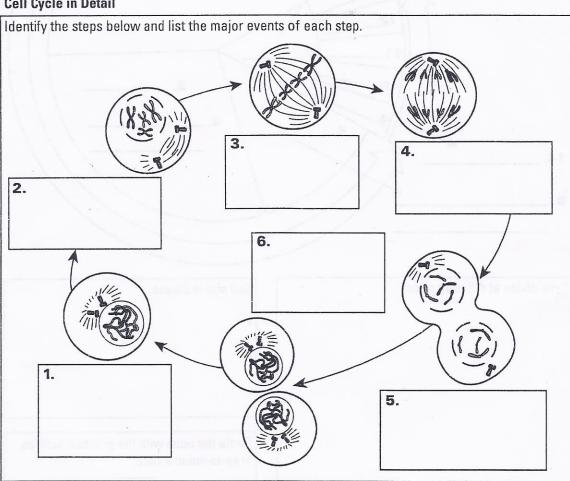
CHAPTER 5
Cell Growth and Division

MITOSIS AND CYTOKINESIS

5.2 **Power Notes**

Chromosome structu	ire:		einava ralam	s vyen vet ezen sten and hatthu	
•					
•					
•					
•		+			

Cell Cycle in Detail



CHAPTER 5
Cell Growth and Division

REGULATION OF THE CELL CYCLE

5.3

Power Notes

rnal factors:		External fa	actors:	
			-	
	- 2			
	Cell	Cycle		
Carcinogens:	nollacies	ngah laakonA		
• Examples:	ž.			
A TOWNS AND DESCRIPTION OF THE PARTY OF THE				in emical motes
		-		
Cancer cells				
Cancer cells				
Cancer cells	eganavinzu			tales to sensis
			may be kil	led by
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ASEXUAL REPRODUCTION

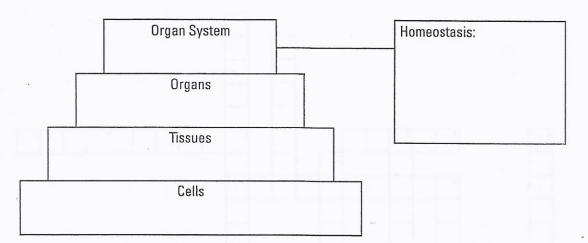
5.4 Power Notes

Binary fission:	Mitosis:
	1.
	2.
	3.
Асоми	al Pennsduction
	al Reproduction
(In prokaryotes	In eukaryotes
	Standar cells
	elles resents
Advantages to species:	Disadvantages to species:
Advantages to species:	Disadvantages to species:
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	Tomors Tomors Tomors Tomors Tomors Tomors Tomors

CHAPTER 5
Cell Growth and Division

MULTICELLULAR LIFE

5.5 **Power Notes**



Defining characteristics: 1.

2.

3.

Potential:

1.

2.

3.

Stem Cells

Possible uses:

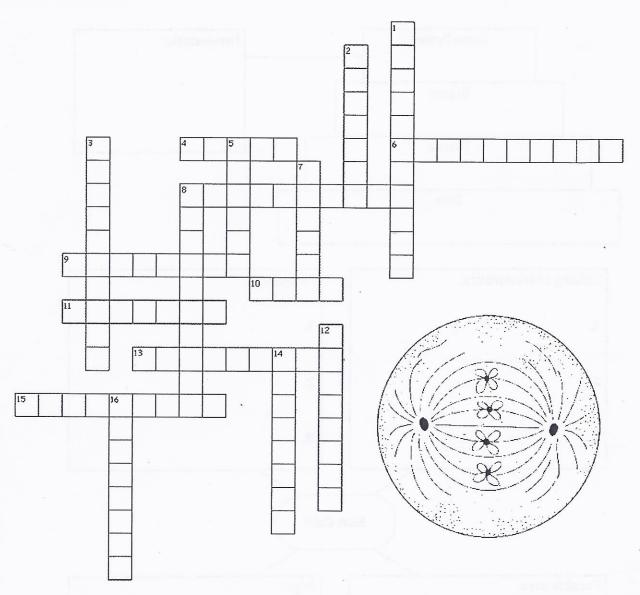
Origin:

1.

2.

Name:			
Name.			

Cell Division



Down

- 1. Division of the cytoplasm
- 2. Structure made of fibers that help to move chromosomes during mitosis
- 3. A chromosome consists of two identical
- 5. Disease caused by uncontrolled cell growth
- 7. Cells are limited in size by their surface areas and
- 8. Paired structure that helps to organize the spindle
- 12. Cells exchange materials across the cell
- 14. The phase where chromatids separate
- 16. The phase where chromosomes first become visible

- 4. Series of events a cell goes through as it grows and divides; the cell
- 6. The phase in which DNA copies itself
- 8. Holds sister chromatids together
- 9. When a cell divides, it forms two cells
- 10. Cells that can become any other cell type; ___ cells
- 11. Division of the cell nucleus
- 13. The phase where cytokinesis begins
- 15. The phase where chromosomes line up along the equator