## THE CELL CYCLE WORKSHEET Name: Jalen Pawell

Matching: match the term to the description A. Prophase B. Interphase C. Tel	ophase D. Metaphase E. Anaphase			
1. The sister chromatids are moving apart.	€ 9. The chromosomes are moving towards the poles of the cell.			
2. The nucleolus begins to fade from view.	10. Chromatids line up along the equator.			
3. A new nuclear membrane is forming around the chromosomes.	11. The spindle is formed.			
4. The cytoplasm of the cell is being divided.	3 12. Chromosomes are not visible.			
5. The chromosomes become invisible.	13. Cytokinesis is completed (as next cycle begins).			
6. The chromosomes are located at the equator of the cell.	14. The cell plate is completed.			
$\underline{\underline{A}}$ 7. The nuclear membrane begins to fade from view.	<u>B</u> 15. Chromosomes are replicated.			
8. The division (cleavage) furrow appears.	16. The reverse of prophase.  8 17. The organization phase			
Fill in the blank: Some will be used more than once A. Prophase D. Metaphase B. Interphase E. Anaphase C. Telophase F. Centromere	G. Chromatid J. Spindle fiber H. Cytokinesis K. Cell plate I. Mitosis			
18. What phase are daughter cells in as a result of mitosis?	23. What are the two parts of cell division?			
19. During what phase of mitosis do centromeres divide and the	24. What structure forms in prophase along which the chromosomes move?			
chromosomes move toward their respective poles?	25. Which phase of mitosis is the last phase that chromatids are together?			
20. What is the phase where chromatin condenses to form chromosomes?	26. Which phase of the cell cycle is characterized by a non-dividing cell?			
21. What is the name of the structure that connects the two chromatids?				
22. In a chromosome pair connected by a centromere, what is each individual chromosome called?	28. What forms across the center of a cell near the end of telophase?			

/-	B 29	_29. The period of cell growth and development between mitotic divisions?		30. What is the phase where cytokinesis occurs?		
The	diagram belover in which the	w shows six cells i	n various phases of t Use the diagram to <b>Phases of t</b>	the cell cycle. Note answer questions he Cell Cycle	the cells are not 1-7.	arranged in the
		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
	A	В	С	D	E	F
	Prophas	se1.	Cells A & F show a	n early and a late s	tage of the same	phase of the cell
	cycle. Wha	nt phase is it?				
	C	2.	Which cell is in me	taphase?		
	A	3.	Which cell is in the	first phase of M p	hase (mitosis)?	
	Centrial	4.	In cell A, what stru	cture is labeled X?		
	DAFC	EB 5.	List the diagrams in	order from first t	o last in the cell c	ycle.
	anima		Are the cells depict			
		a.	Explain your answe	er. Cells don'	+ have cell	wall, round,
	Tulevol		If it were the other	lar shape		t in the diagrams?
		hase 7.	What is the longes			
8.	Why is mi	tosis important?	Duplicates th	e geneticn	naterial for	- daughter cells
9.			if an individual had the would en			g amount
10 Pro	dict what woul	ld hannen if cytok	inesis was skipped.			
10.116	Cells	would cor	tain too m	ony chromos	somes and	the cell wouldn't
TV	ne cell pl	ate is the	plate and cleavage f membrone ( ing of on ma entrioles, spindle fib	around a pla	nt cell. Tr	ne Cleavage

