Name:		Date:	Period:
Cell Cycle Control Game Worksheet			
		DIRECTIO	NS:
		: http://nobelpri	ize.org/educational games/medicine/2001/cellcycle.html
	<ul> <li>Click on the cell(s) and wat</li> <li>After you watch the cells, c</li> </ul>	lick "ENTER" to go	et into the game.
	<ul> <li>Answer the following ques</li> </ul>	tions using the we	ebsite.
1.	When do cells divide?		
2.	How many cells are replaced in our bodies each	minute?	
Click the	ne arrow to continue.		
3.	Cells divide at different rates.		
	a. Skin cells divide	<del>.</del>	
	b. Liver cells divide		
	c. Bone marrow cells divide		
	d. Stomach and intestine lining cells divi	de	
Click the	ne arrow to continue.		
4.	When a cell dies, what happens?		
Click the arrow to continue.			
5.	What are the 2 key molecules that control and o		cycle?
a	aand		
	the arrow to continue. "Enter" the "CELL CYCLE CO		S
о.	the cell cycle.	ation on the contro	or screen to the LEFT and select the event that must occur in G1 of
7.		eed Puta"1" on th	he line helow nevt to the correct activity
/.	a. Cell destruction	eed. Futa 1 on ti	the fine below flext to the correct activity.
	b. Cell growth		
	c. Cell division		
	d. Chromosome replication		
	e. Chromosome duplication		
8.	Read the information on the RIGHT screen. Wha	at 2 things must oc	cur in order for the cell to proceed into the S phase in Checkpoint
	1? a	b	
9.	Check if the cell has grown enough by clicking o	n the "CELL SIZE."	How big did the cell size increase during the $1^{\mathrm{st}}$ checkpoint?
	%		
10.	. Check if the cell has DNA damage by clicking on	"GENETIC MATER	IAL." Was there DNA damage found?YES NO
11.	. The cell has now proceeded into the S phase. Re	ead the information	n on the control screen to the LEFT and select the event that must
	occur in S of the cell cycle.		
12.	. Click the correct activity on the website to proce	eed. Put a "2" on th	he line below next to the correct activity.
	a. Cell destruction		
	b. Cell growth		
	c. Cell division		
	d. Chromosome replication		
10	e. Chromosome duplication	D d els - t - f	to an electrical annual to the LERTH and colored
13.	-	keau the informati	on on the control screen to the LEFT and select the event that
	must occur in G2 of the cell cycle.		