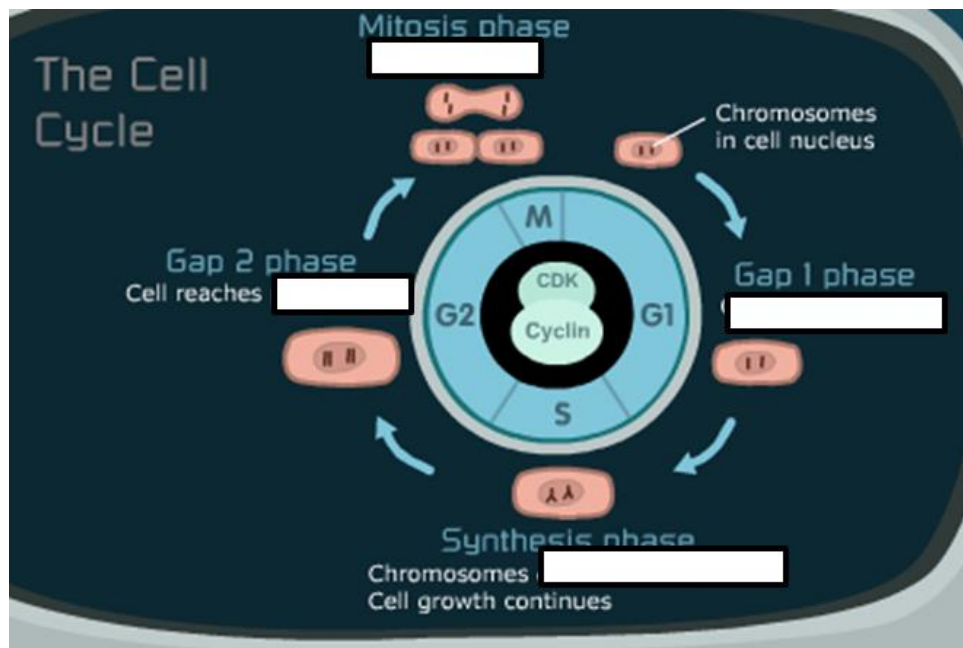


Cell Cycle Interactive

<http://www.nobelprize.org/educational/medicine/2001/cellcycle.html>

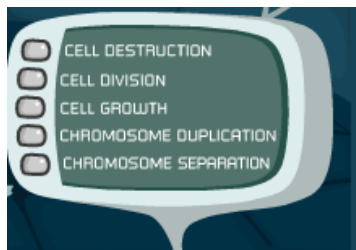
Go to the interactive and answer these questions:

- 1) When do cells divide?
- 2) Three hundred MILLION cells are replaced how often in our body?
- 3) Which two cell types grow and divide throughout a life time?
- 4) When a cell dies, what signals nearby cells to start dividing? Why?
- 5) Which organelle picks up the signal?
- 6) Fill in this layout:



- 7) What are the key molecules which control and coordinate cell division?
- 8) Check, circle or Highlight the order of steps:

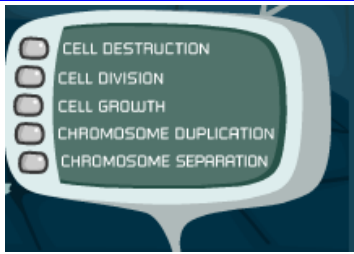
STEP 1



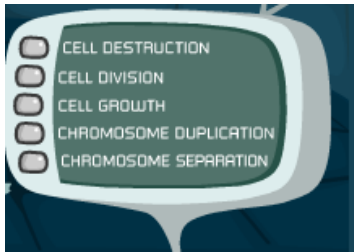
STEP 2

Cell Cycle Interactive

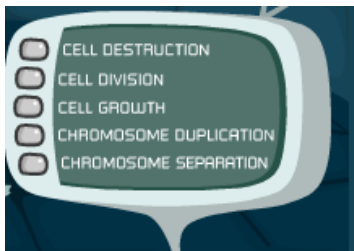
<http://www.nobelprize.org/educational/medicine/2001/cellcycle.html>



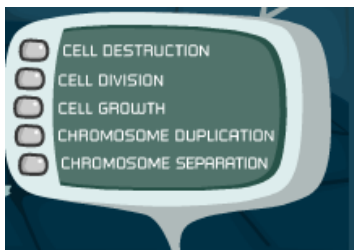
STEP 3



STEP 4



STEP 5



- 9) If the cell cycle has a coordination error, what might it lead to?
- 10) Who are the supervisors that make sure that everything proceeds in the right order during the cell cycle?
- 11) What happens if the "Supervisors" are not working properly?
- 12) Why is it necessary to understand the control mechanism of the cell cycle?
- 13) Is it common for negative things to happen?
- 14) Watch the video of cell division! Which stage of mitosis is shown in the film?
- 15) Get Mrs. Winters to look at the final screen and get her signature when you SUCCEED!!! (when your person is sleeping well.

