

Cell Cycle Notes

Cell Division Background

- Single-celled organisms divide to reproduce (asexual)
- Multicellular organisms divide to grow, heal wounds, & replace old/worn out cells
- To stay healthy, an organism's cell division, cell specialization, & cell death must be balanced & controlled
- Cell division is controlled/regulated by stages of cell cycle
- If cell division is NOT REGULATED:
 - too much cell division → CANCER
 - too little cell division → hair loss

Summarize each phase of the cell cycle:

Stage	Phase Name	What happens, and what comes next?
Interphase	G1	
	S	
	G2 Gap 2	
M		
C		

Label the Cell Cycle Diagram

- Name each phase
- Sketch what the cell looks like at each phase
- Describe what happens in 1-3 words during each phase

