Notes on Chapter 6-2

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Cell Cycle is the cell division on a eukaryotic cell.

↖ Cell w/ a nucleus

Cell cycle- a repeating sequence of cellular growth and division during the life of an organism.

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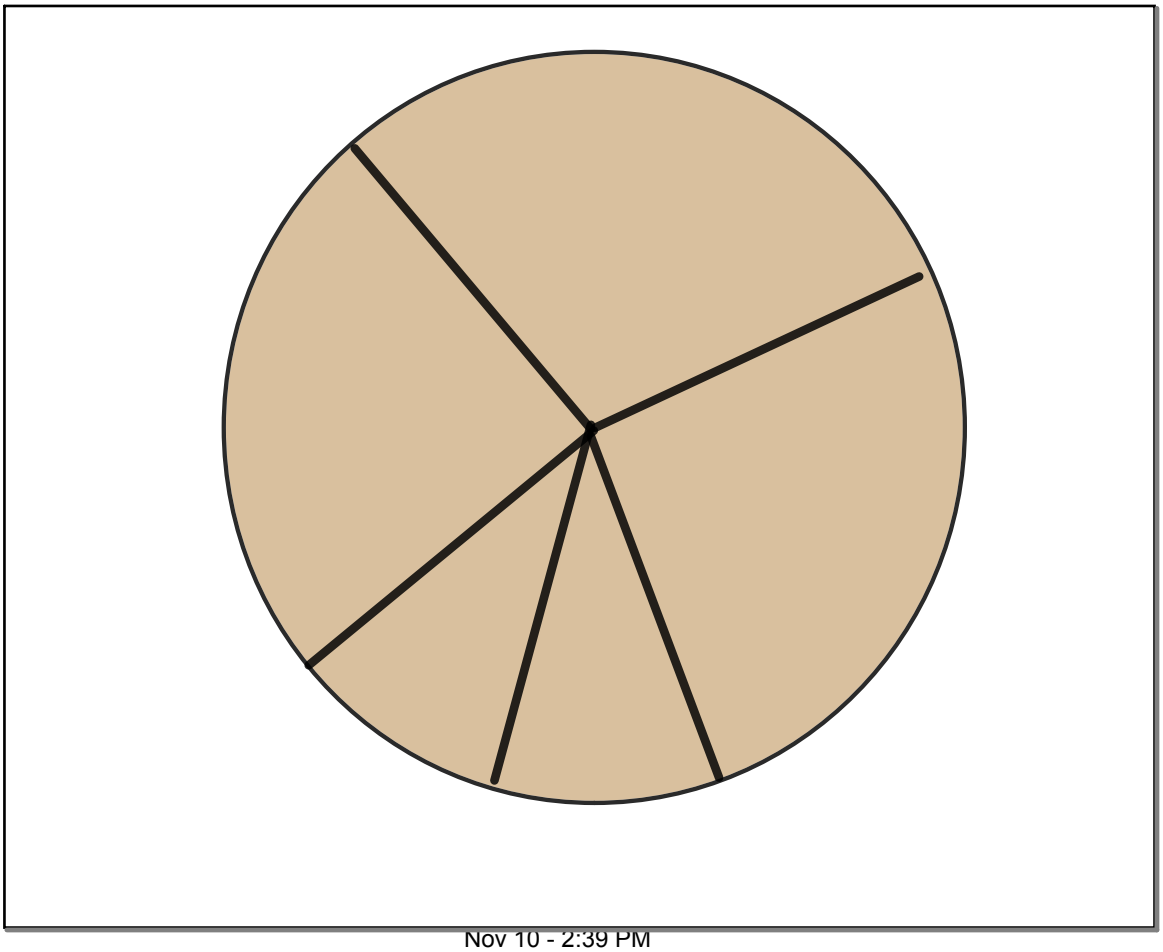

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G_1 The first growth phase. A cell carries out its functions and grows. Cells that are not dividing stay in G_1

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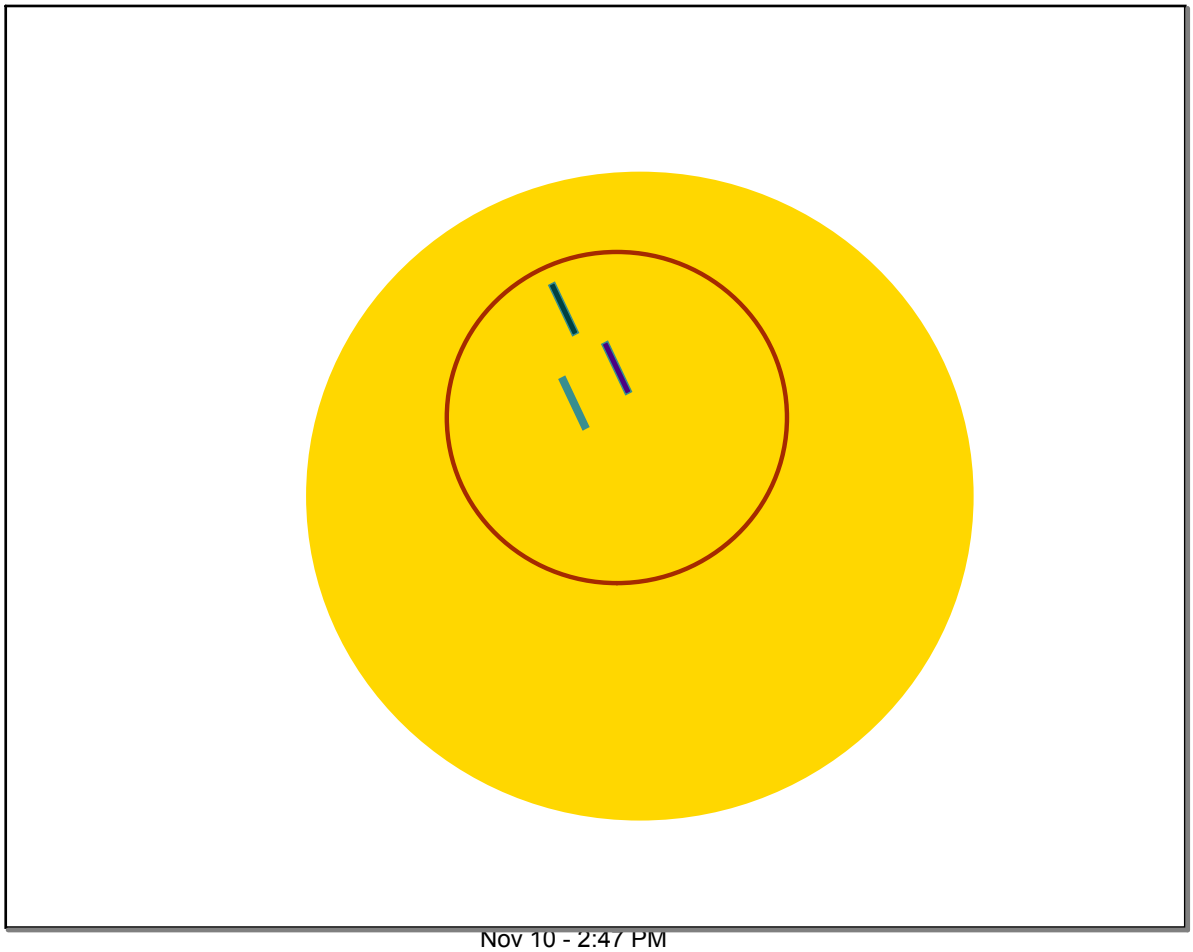

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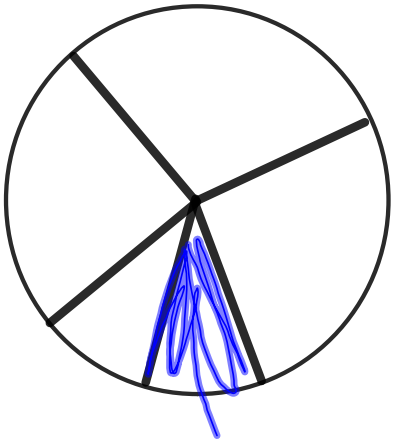
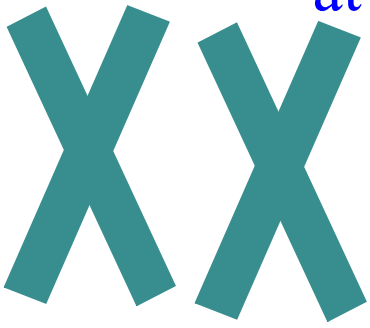


S phase- Synthesis- a cell's DNA is copied. At the end of this phase each chromosome consists of two chromatids attached at the centromere.



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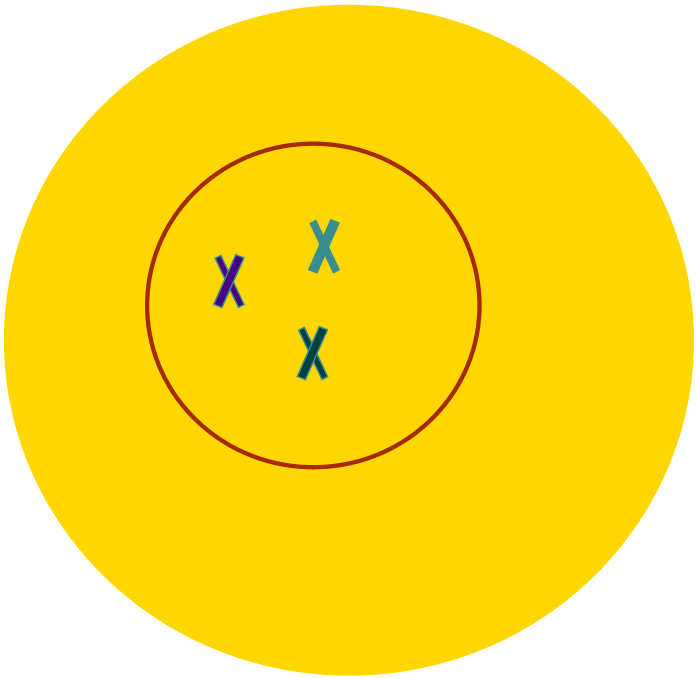

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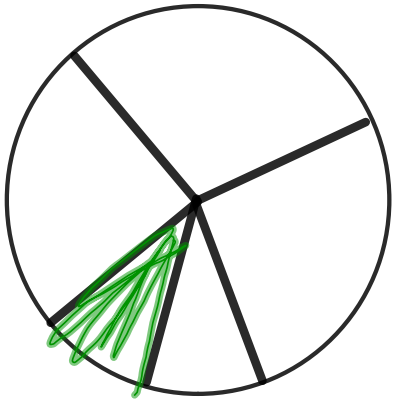

G_2 phase. The second growth phase. The cell prepares to divide. Microtubules are assembled.

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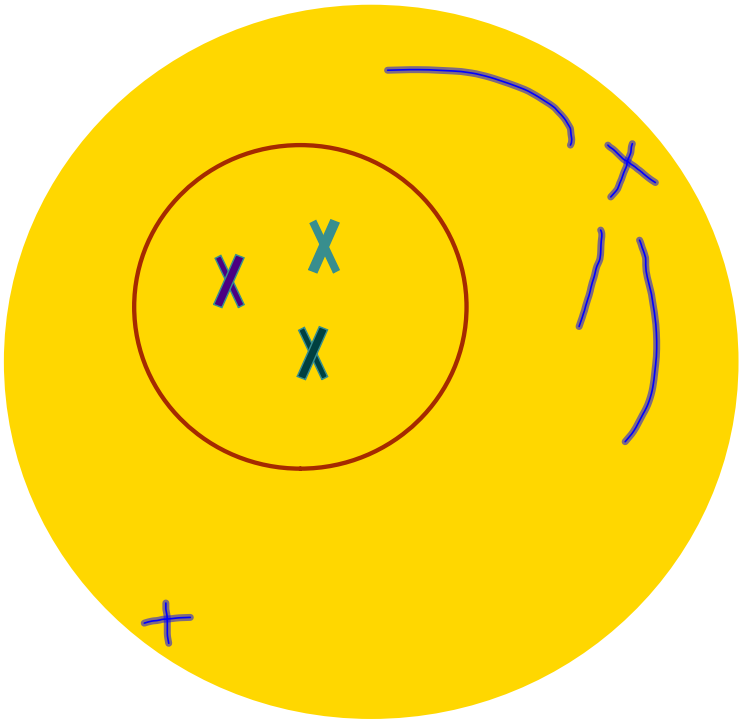

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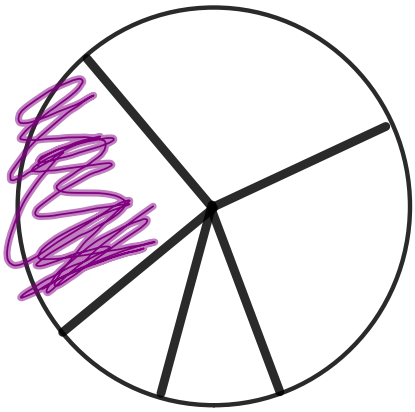

Mitosis- The process of cell division. The cell divides into two nuclei.

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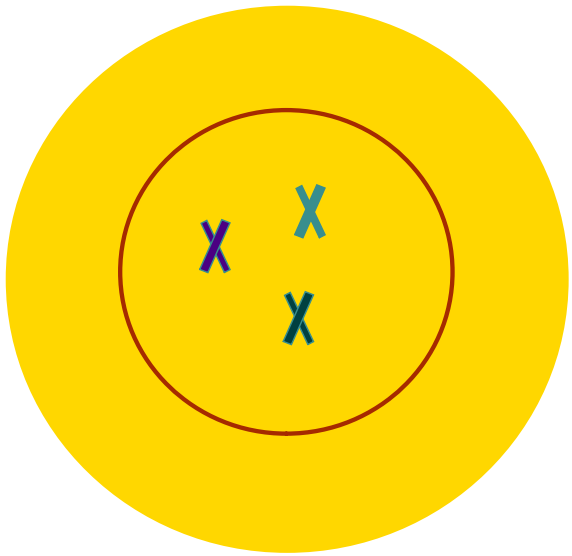

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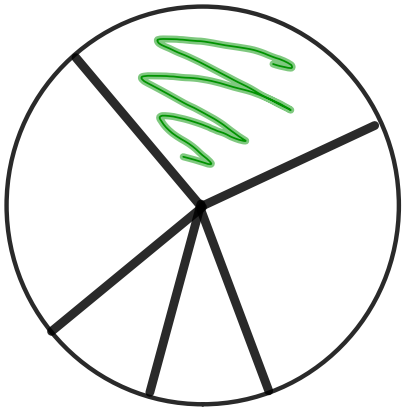

Cytokinesis- the process by which the cytoplasm divides.

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Cytokinesis

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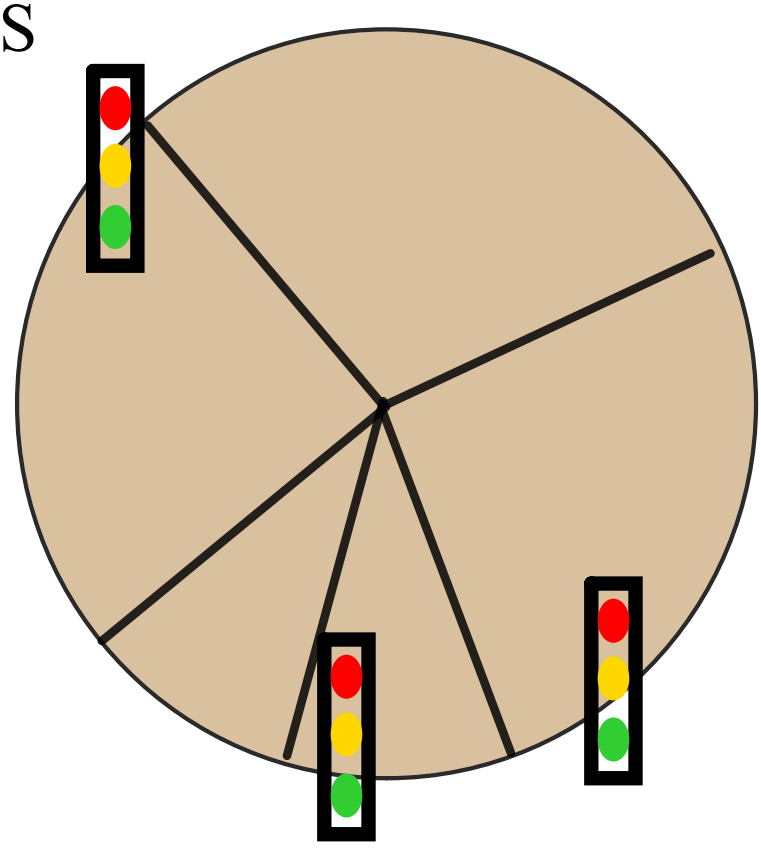
STOPS



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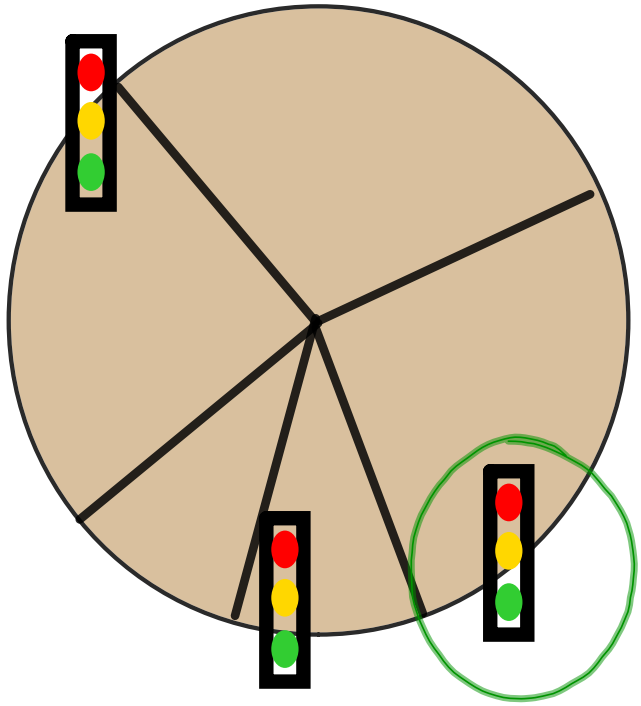

G_1 checkpoint- decided if the cell will divide

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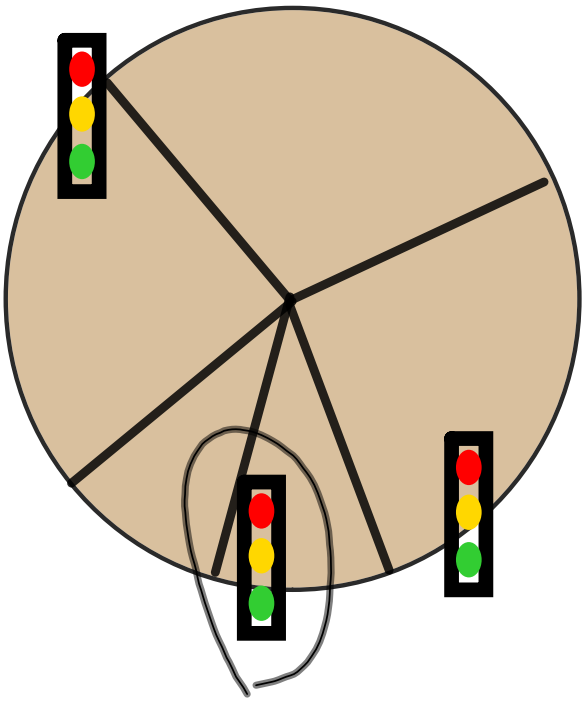

G_2 checkpoint- DNA replicationo is checked at this point by DNA repair enzymes. If this check point is passed the cell enters mitosis.

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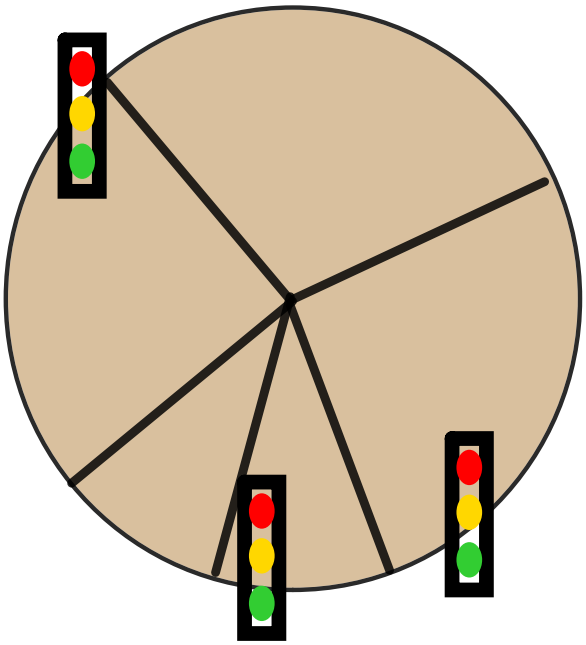

Mitosis checkpoint- triggers the exit from mitosis.

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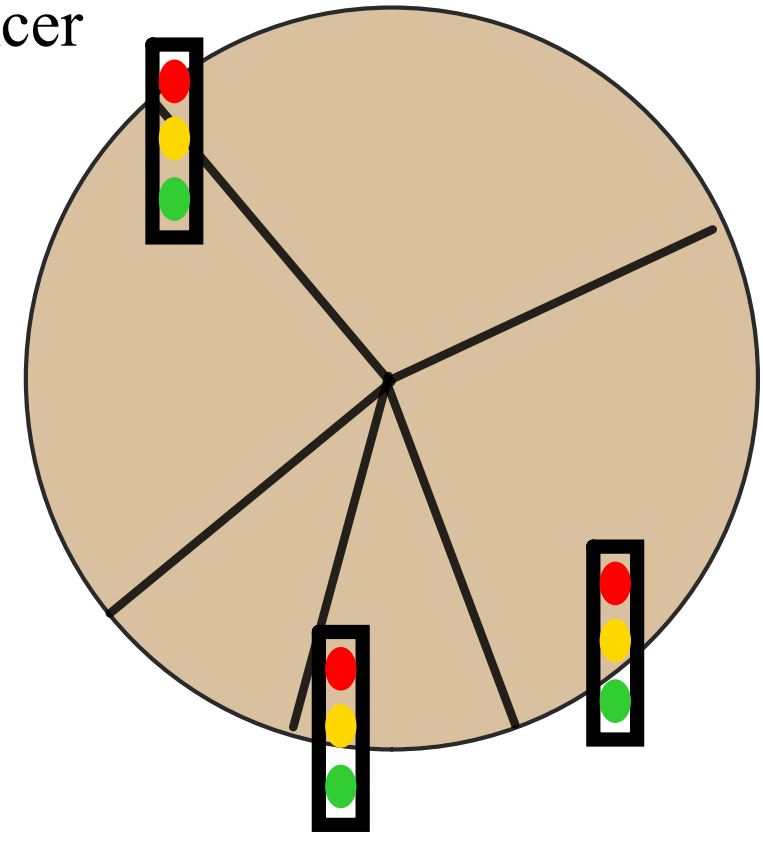
Cancer



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Concept Mapping Worksheet

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