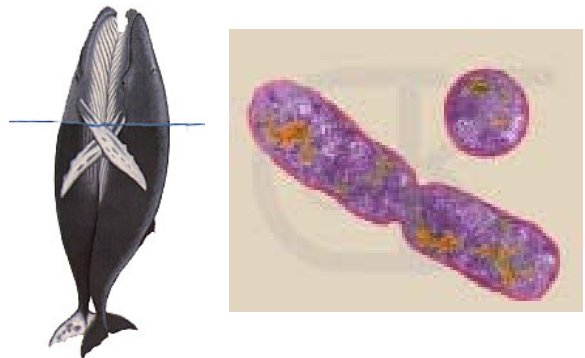


Chapter 10 Section 1
Objectives: Students will

- A) List three reasons why cells divide
- B) Correlate surface area and volume with increasing cell size
- C) Identify the parts of a chromosome
- D) Identify the 4 stages of the cell cycle
- E) Summarize the role of each stage of interphase

- A) List three reasons why cells divide
- 3. _____



- A) List three reasons why cells divide



1.

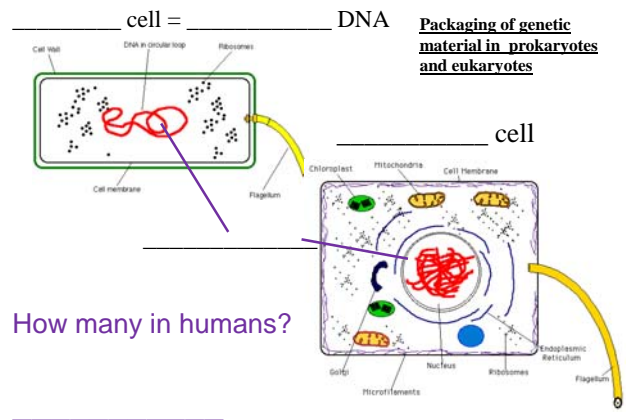
1000 books,
population?



2. _____
and _____
exchange



- C) Identify the parts of a chromosome

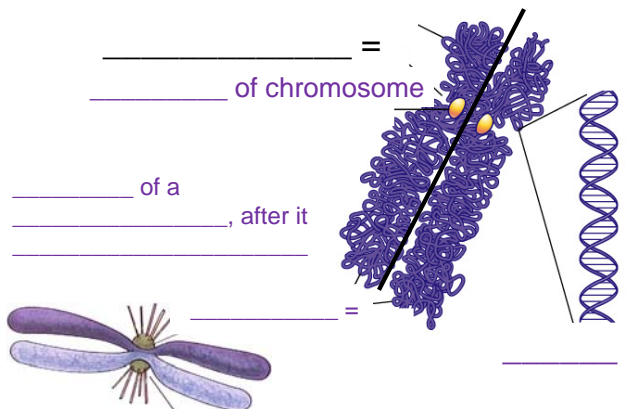


- B) Correlate surface area and volume with increasing cell size

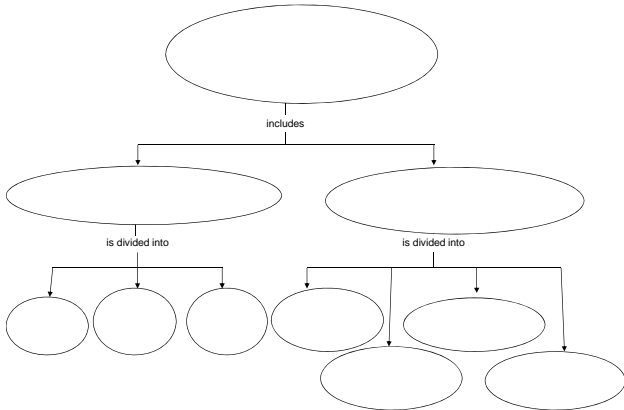
_____ area = _____ and
_____ movement
_____ = Nutrient and waste _____

Desired Ratio? _____	1 cm 1 cm 1 cm	2 cm 2 cm 2 cm	3 cm 3 cm 3 cm
Surface Area (length x width x G)			
Volume (length x width x height)			
Ratio of Surface Area to Volume			

- C) Identify the parts of a chromosome



D) Identify the 4 stages of the cell cycle

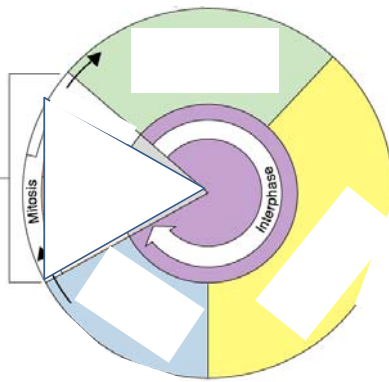


Standards-Based Understanding Check
 Answer the following questions on the bottom of your notes

1. List the three reasons cells divide.
2. Draw a chromosome and label the 2 main parts.
3. Why is a large surface area to volume ratio ideal in cells?
4. Name the four stages of the cell cycle.

E) Summarize the role of each stage of interphase

In what phase do cells spend most of their life?



Actual STAR Question.

Rewrite the question, underline key words, then choose your answer.

What causes tomatoes to ripen much more slowly in a refrigerator than they do if left on a table at room temperature?

- A Tomatoes need sunlight to ripen.
- B Humidity accelerates the ripening process.
- C Low temperatures reduce the action of ripening enzymes.
- D Enzymes produced by bacteria inhibit ripening.

Cross off answers that do not answer the question.