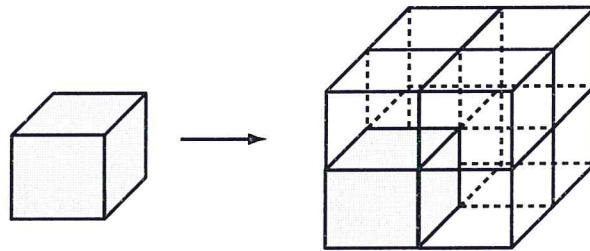
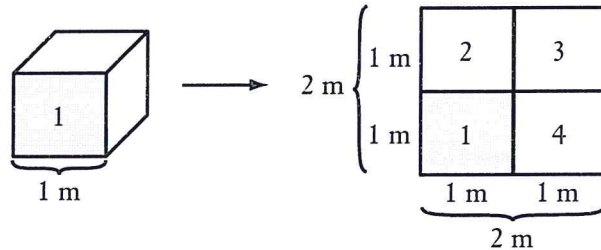


CHAPTER 11 CELL REPRODUCTION

Get the Big Picture

Study the picture to answer the questions.



When a cube is doubled in size, the surface area grows by four times the size. The inside area, called the volume, grows by eight times.

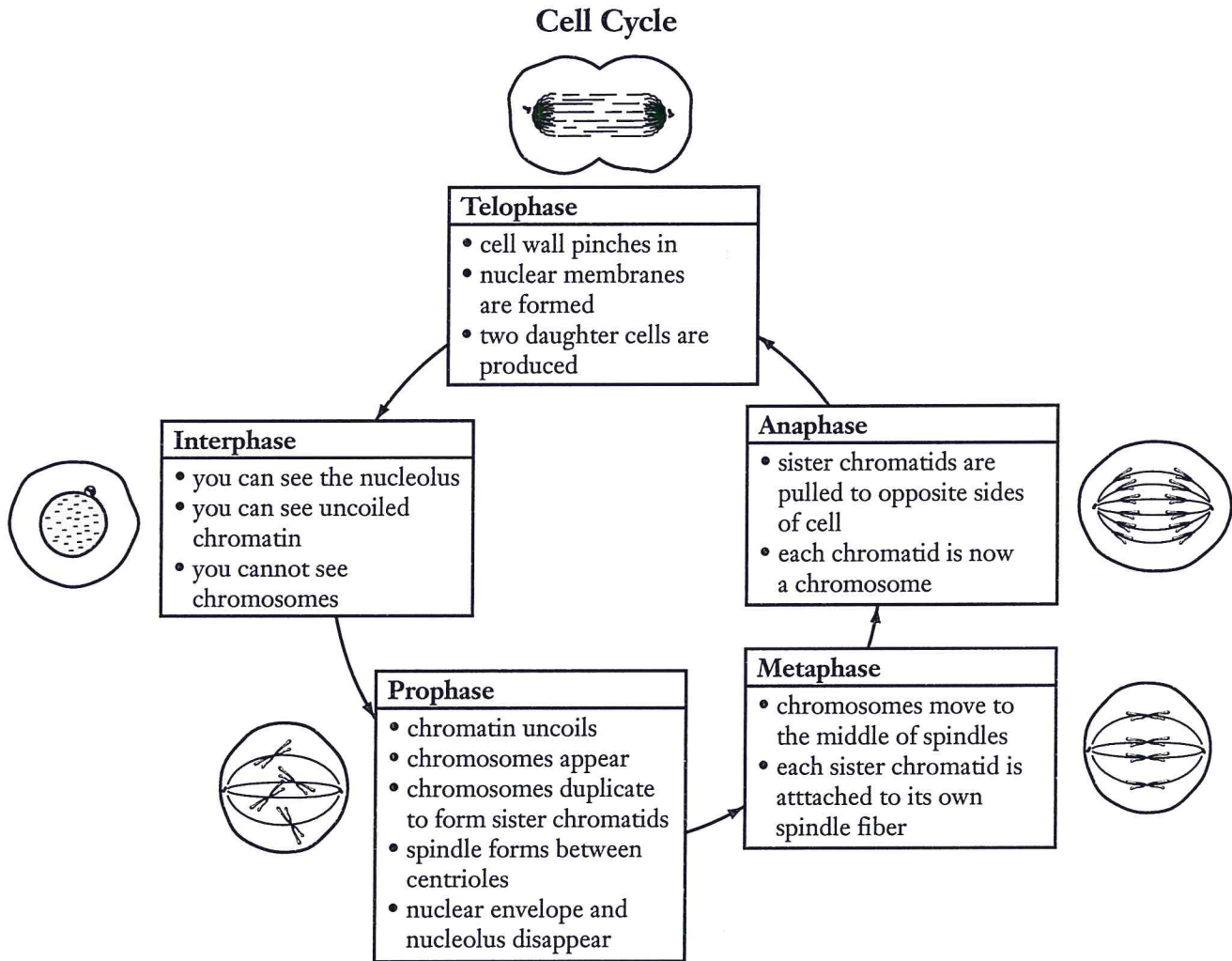
- Suppose you double the length, height, and width of a cube. How many times does the *outside* area of the cube increase by? _____
- What is the name for this outside area? _____
- Suppose you double the length, height, and width of a cube. How many times does the *inside* area of the cube increase by? Hint: count the number of little cubes inside the big cube.

- What is the name for this inside area? _____
- Think about what you have just learned about what happens to the surface area and volume of a cube when it doubles. What will happen to the surface area and volume of a cell if it doubles?

- What does a cell do to make sure that it does not grow too big? _____

CHAPTER 11 CELL REPRODUCTION

**Section 11.1 Cell Growth and Reproduction
Study the Cell Cycle**



Study the diagram and answer the questions.

1. What are the five phases of the cell cycle? _____

2. Two daughter cells form during which phase of the cell cycle? _____
3. Sister chromatids form two separate chromosomes during which phase? _____
4. Chromosomes move to the middle of the spindles during which phase? _____
5. You first see the chromosomes during which phase? _____