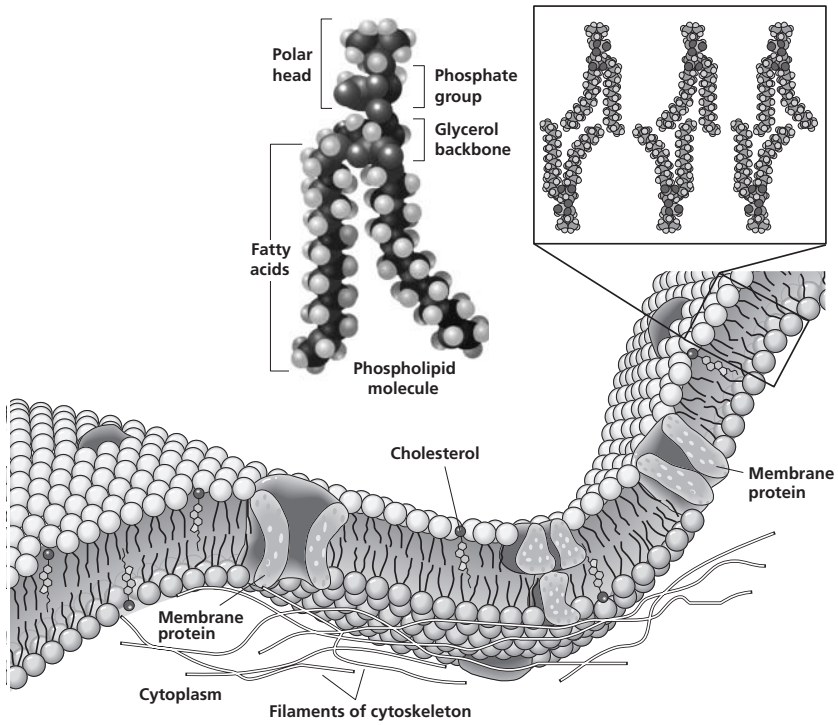
Name Date Class

Master 6

Plasma Membrane

Basic Concepts

Use with Chapter 7, Section 7.2



Name Date Class

Worksheet 6

Plasma Membrane

Basic Concepts

Use with Chapter 7, Section 7.2

1. Describe the phospholipid in the upper left part of the transparency.

2. Which end of a phospholipid is attracted to water?

3. How are phospholipids oriented in the plasma membrane?

4. What is the function of membrane proteins?

5. Why is the model of a membrane shown in the transparency referred to as the fluid mosaic model?

6. How would the membrane shown in the transparency behave if its fatty acid tails consisted mostly of unsaturated fatty acids?

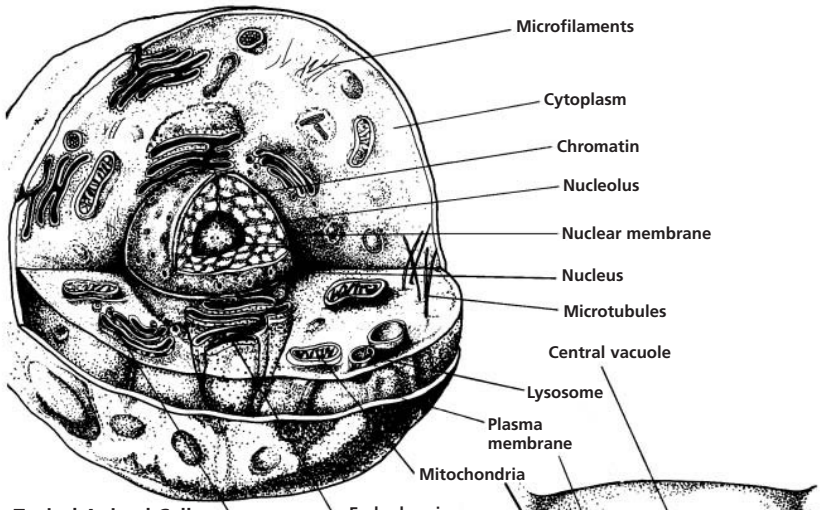
7. What is the function of the cholesterol molecules shown in the transparency?

Name Date Class

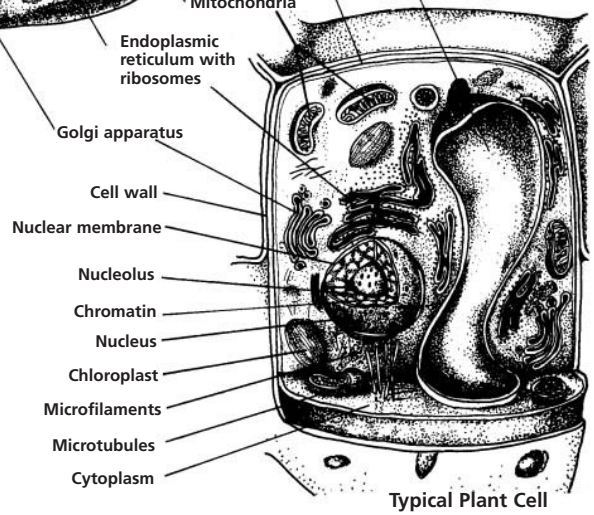
Master 7 **The Cell**

Basic Concepts

Use with Chapter 7, Section 7.3



Typical Animal Cell



Typical Plant Cell

Name Date Class

Worksheet 7 **The Cell**

Basic Concepts

Use with Chapter 7, Section 7.3

1. Which cell parts are common to both plant and animal cells?

2. Which organelle aids in digestion of worn-out cell parts?

3. Which organelle is found in plant cells but not in animal cells?

4. What is the function of the central vacuole in plant cells?

5. What would be the likely function of a plant cell that contains many chloroplasts?

6. Which plant cells might not contain any chloroplasts?

7. Which organelles are produced within the nucleolus?

8. Why would a cell that moves by means of cilia or flagella require a relatively large number of mitochondria?

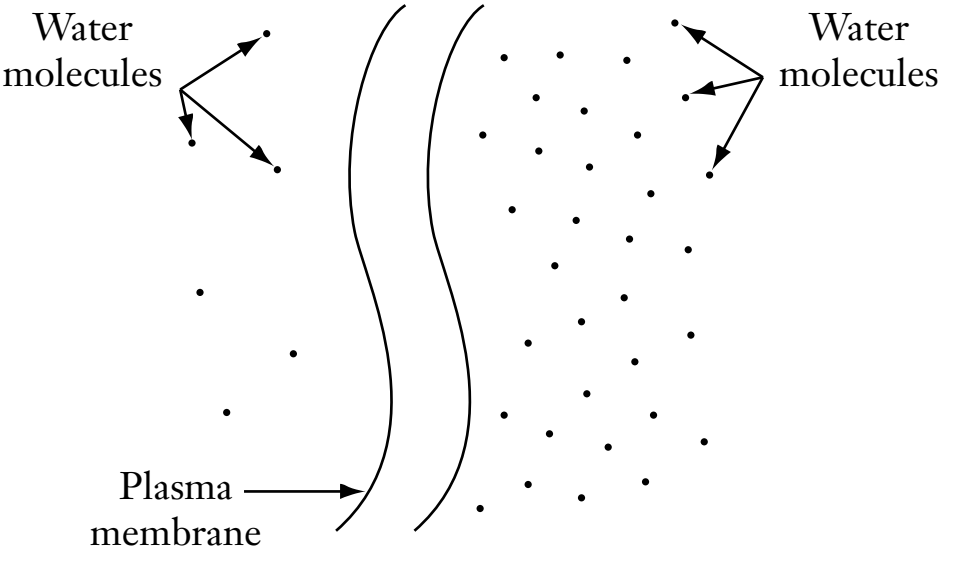
CHAPTER 9 HOMEOSTASIS AND THE PLASMA MEMBRANE

Section 9.2 Cellular Transport

Study the Diagram

Study the diagram and read the caption. Then answer the questions.

Osmosis



Osmosis occurs when water molecules move through the plasma membrane. The molecules move from an area of higher water concentration to an area of lower water concentration.

1. Draw an arrow across the plasma membrane in the diagram to show which way water molecules move during osmosis.

2. Osmosis is a type of diffusion. In osmosis, what substance moves? _____

3. In osmosis, the moving substance passes through a _____ membrane.

4. After osmosis, there is a balance of water molecules inside and outside the cell. Draw water molecules in the diagram above to show what the cell looks like after osmosis.