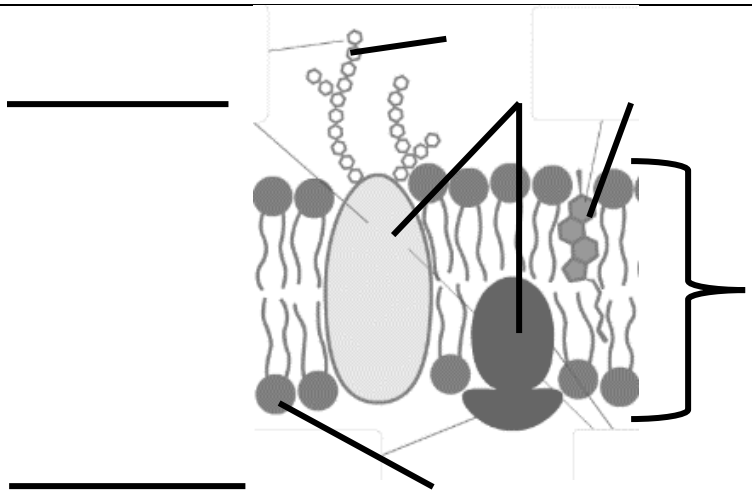
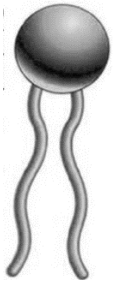
Name _____ Block _____ Date _____

Unit 3 Checklist – Cell Membrane and Cell Size

#	Question	Lesson Exit Ticket
1	Label the parts of the **fluid mosaic model** of the **cell membrane** with the following terms: • **Region inside cell** • **Region outside cell** • **lipid bilayer** • **phospholipid** • **protein** • **cholesterol** • **carbohydrate**	
2	Describe the function of each part of the **cell membrane**.	**Phospholipid** **Cholesterol** **Protein** **Carbohydrates**
3	Label the regions of a **phospholipid** with the following terms: • **polar** • **nonpolar** • **hydrophobic** • **hydrophilic**	
4	Draw the **bilayer** arrangement of the **phospholipids** in the **cell membrane**, and label the inside and outside areas of the cell.	
5	Explain *why* the **phospholipids** arrange themselves in a **bilayer**.	
6	Describe what **homeostasis** means.	
7	The cell membrane is **selectively permeable**. Explain what this means.	

8	Describe what a **concentration gradient** across a **cell membrane** is.	

9 Complete the chart

Transport	Passive or Active?	Up or down concentration gradient?	Needs proteins (yes or no)?	Example/types of substances
Simple Diffusion				
Facilitated Diffusion				
Active Transport				
Osmosis				

10 Complete the Chart

Environment	Solute concentration **inside** cell (higher, lower, or equal)?	Solute concentration **outside** cell (higher, lower, or equal)?	The cell will (expand, shrink, or stay the same)?
Hypertonic			
Isotonic			
Hypotonic			

11	Is it better for a cell to have a large or small **surface area**? Explain why.	Large or small SA (circle 1) Why?
12	Is it better for a cell to have a large or small **volume**? Explain why.	Large or small V (circle 1) Why?
13	Is it better for a cell to have a small or large **SA:V ratio**? Explain why.	Large or small SA:V (circle 1) Why?
14	Describe at least two examples of human cell specialization that increases SA without increasing V.	1. 2.