

Scenario	Concentrations Before Transport		Concentrations After Transport		Name the process(es) that would be happening if this situation occurred (simple diffusion, osmosis, facilitated diffusion, molecular active transport)
	Inside cell	Outside cell	Inside cell	Outside cell	
#6 (the cell needs more glucose outside the cell)	5 water, 4 glucose	5 water, 4 glucose			Description of scenario #6: (How did the molecules move? ...through what part of the membrane? ...what type of transport was observed?)
#7 (achieving homeostasis for water concentrations; needs high concentrations of glucose outside the cell)	7 water, 4 glucose	3 water, 4 glucose			Description of scenario #7: (How did the molecules move? ...through what part of the membrane? ...what type of transport was observed?)
#8 (homeostasis)	2 water, 6 glucose	8 water, 2 glucose			Description of scenario #8: (How did the molecules move? ...through what part of the membrane? ...what type of transport was observed?)
#9 (homeostasis)	2 water, 6 glucose, 1 oxygen	8 water, 2 glucose, 5 oxygen			Description of scenario #9: (How did the molecules move? ...through what part of the membrane? ...what type of transport was observed?)
#10 (achieving homeostasis for water and oxygen concentration; needs high concentration of glucose outside the cell)	3 water, 4 glucose, 0 oxygen	7 water, 4 glucose, 6 oxygen			Description of scenario #10: (How did the molecules move? ...through what part of the membrane? ...what type of transport was observed?)

## Membrane Transport Scenarios

**DIRECTIONS:** Use the information provided to place the cards where needed. Then fill out the table to answer the following questions.

Scenario	Concentrations Before Transport		Concentrations After Transport		Name the process(es) that would be happening if this situation occurred (simple diffusion, osmosis, facilitated diffusion, molecular active transport)
	Inside cell	Outside cell	Inside cell	Outside cell	
#1 (homeostasis)	8 water	2 water			Description of scenario #1: (How did the molecules move? ...through what part of the membrane? ...what type of transport was observed?)
#2 (homeostasis)	0 water	10 water			Description of scenario #2: (How did the molecules move? ...through what part of the membrane? ...what type of transport was observed?)
#3 (homeostasis)	5 water, 5 oxygen	5 water, 1 oxygen			Description of scenario #3: (How did the molecules move? ...through what part of the membrane? ...what type of transport was observed?)
#4 (homeostasis)	0 water, 1 oxygen	10 water, 5 oxygen			Description of scenario #4: (How did the molecules move? ...through what part of the membrane? ...what type of transport was observed?)
#5 (homeostasis)	5 water, 2 glucose	5 water, 6 glucose			Description of scenario #5: (How did the molecules move? ...through what part of the membrane? ...what type of transport was observed?)