

Potato Experiment

Take a potato and cut nine slices, each about 5 mm thick.

Place three slices in a cup of tap water.

Place three slices in a cup of tap water plus 1/2 tsp salt. (About 1% salt.)

Place three slices in a cup of tap water plus 1 tsp salt. (About 2% salt.)

Let all three stand for 8 hours. Record your results in the chart below.

Extra Cellular Fluid	Potato	
	Texture	General Appearance
Tap Water _____ tonic _____	_____	_____
Water + 1/2 tsp salt _____ tonic _____	_____	_____
Water + 1 tsp salt _____ tonic _____	_____	_____
<i>Use what you have learned about diffusion and osmosis to explain what happened to the slices in:</i>		
Tap Water _____	_____	_____
Water + 1/2 tsp salt _____	_____	_____
Water + 1 tsp salt _____	_____	_____

Beet Experiment

Take a beet and cut six slices, each about 5 mm thick.

Place three slices in cold water.

Place three slices in boiling water.

Observe the color of the water. Describe. Pay special attention to differences.

Cold Water _____

Boiling water _____

Explain the differences. (Hint: Heat has two effects in this experiment. For full credit, you must think of both.)

1. _____

2. _____