Name: _____ Date: _____ Period: _____

Observation and Inference Challenge: The Think Tube

A model is a representation of an object or process that cannot be directly observed. For example, we cannot see atoms but we can create models of atoms that are consistent with our observations. We cannot see what happens inside the brain as someone learns, but we can create models of how learning takes place.

You will see some demonstrations performed with strings coming out of a tube. You will use observations of how the strings work to create a model of the arrangement of strings inside of the box or tube.

After each demonstration, record what happened by drawing a diagram or explaining in words. After each demonstration, create a model of the string arrangement inside the tube.

	Original Position	**What Happened**	**Model**
Part A			
Part B			
Part C			

Based on your observational findings, use inference to deduce the interior arrangement of strings within the tube. Draw a model of your conclusion in the space provided here.

Review:

Why do we construct models?

What should we do when our models fail to approximate the real behavior of an object?