**Station 1**

In front of you is a heat lamp. BE VERY CAREFUL!!! The lamp may be extremely hot. Only pick up the lamp by the plastic plug.

Plug in the lamp and shine it on your hand. What do you feel?

What does this tell you about light?

**Station 2**

In front of you is a digital scale. This measures mass, which is a measure of how much matter (stuff) something is made of.

You may notice the numbers on the scale jump around a little bit. This is normal, and is caused by slight errors in the scale. If you see this, you can ignore it.

Place your pencil onto the scale. What does it read?

Now, shine the flashlight onto the scale. Does it read anything?

**Station 3**

Inside the vacuum chamber is a flashlight. To start there is air in the chamber.

Turn on the pump and remove air from the chamber. You should see the dial on the pump start to go up.

Does the light change at all when the air is removed?

Now turn the plastic knob to let the air back into the chamber. Does the light change at all?

**Station 4**

Here is a picture of light that was sent through two openings.

What do you see the light doing?

What does this tell you about what light is made of? Check back at your notes for help on this one.

**Station 5**

Shine the laser at the window. Does the laser go through it?

Shine the laser at the table. Does the laser go through it?

Shine the laser at your closed fingers. Does the laser go through?

What does this suggest?