

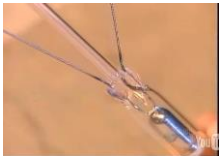
Station 1: Incandescence, Fluorescence & LED

1. Turn on the 3 light bulbs and complete the table below

	Incandescent Bulb	Compact Fluorescent Bulb	LED Bulb
Sketch the shape of the bulb			
Turn ON the 3 light bulbs and complete the next sections			
Temperature after being on for 2 minutes <i>(use the thermometer)</i>			
Brightness Scale 1 - 5 Very dim – very bright			
Turn OFF the light bulbs			
Cost (Find in flyer)			
PRO (good thing)			
CON (bad thing)			

Station 2: Electric Discharge

1. Watch the video on EdPuzzle: **Neon Signs**
2. Put the steps in order – write the numbers 1-5 on the lines



Fuse and add electrodes



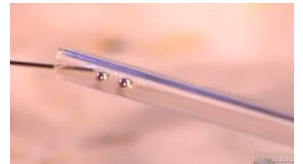
Bend and shape glass



Inject with gas



Dip in black paint



Inject a drop of mercury

Station 3: Phosphorescence

1. Shine a flashlight on the glow in the dark lizards for 1 minute then turn off the light.
2. Cover the lizard with your hand but peek under to see it glowing
3. How long does it stay glowing after you turn off the light?



Trial #1- Time _____

Trial #2 - Time _____

Station 4: Bioluminescence

1. Watch the video on EdPuzzle: **Bioluminescent Sharks**
2. Why do you think that most creatures living deep in the ocean are bioluminescent?

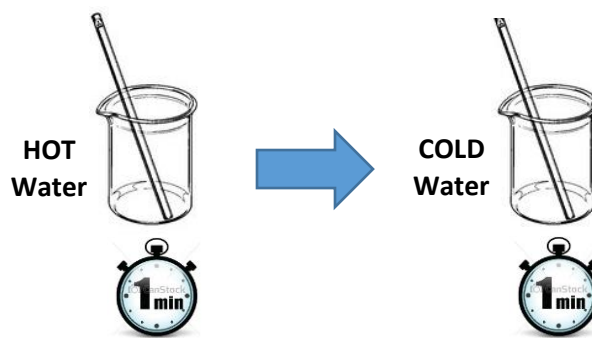
Station 5: Fluorescence

1. Look at the objects under the “black” light to investigate fluorescence.
2. Complete the chart

Items	What happens when it is put under the UV light? <i>Be specific ie. what parts “glow”, what do you see?</i>	Why do you think fluorescence is used for this type of item?
Passport		
Money		
Laundry detergent		
Stamps		
Highlighter		

Station 6: Chemiluminescence

1. Crack **ONE** glow stick.
2. Put it in hot water for 1 minute & observe.
What happened?
3. Put the **SAME** glow stick in cold water & observe.
What happened?



4. Why do you think putting glow sticks in the fridge or freezer makes them last longer?

Station 7: LED

1. Look at the tube with red & green LED lights on top.
2. Shake it back & forth to see what happens.
3. Do both lights light up at the same time? _____
Why do you think this happens?



Station 8: Lasers ****DO NOT SHINE THE LASER AT ANYONE!!!****

1. Shine the flashlight & laser at a wall
2. Which one produces a brighter spot of light on the wall. _____
3. Which one shines farther? _____
4. Why can lasers be dangerous? (especially to eyes)

