**Outline of Lab Report:**

INCLUDE IN **BOLD** IN YOUR LAB REPORT!

**Fancy Science Word Check List**

*Did you use these key words?*

🞎Diffusion

🞎 Phenothaylene

🞎 Chemical Reaction

🞎Surface area

🞎Volume

🞎Surface-to-volume ratio

🞎Cell waste

🞎Oxygen

🞎Osmosis

🞎Semipermeable

🞎Membrane
🞎Limits cell size

1. **Introduction**:
	1. Discuss both points from the objective section
		1. Describe the relationship between cell size and the rate of diffusion.
		2. Relate the surface to volume ratio of a cell to why cells tend to be so tiny!
2. **Observations:**
	1. Include a typed table of the data you collected
	2. *You can add a picture from this lab, some are posted on my web page*
3. **Conclusion:**
	1. What effect did the sodium hydroxide have on the cubes?
	2. Which cube had the largest surface to volume ratio?

Which had the smallest? *Why do you think this is*?

Did this surprise you? *Why*?

* 1. What did the depth of the color pink represent?

In which cube was the depth of diffusion the greatest?

Were all the depths of diffusion the same, regardless of the cube size?

If you left the largest cube in sodium hydroxide over night, would it diffuse all the way through it?

* 1. Based on the results of this experiment, how would you predict cell size affects the rate of diffusion into and out of a cell?
	2. How does this affect cell size?