107. Experiential lesson/ Report

Name: **CLASS: 5/**

Objective:

1. Identify acids and bases using the pH scale
2. distinguish between strong and weak acids and bases
3. make and test predictions, and draw conclusions based on data

Step:1 Write your predictions

Pre-lab activity Prediction	substance	After lab: Result	Evidence
	Spit 	basic	pH=7.40
	Milk 		
	Coffee 		
	Blood 		
	Chicken soup 		
	Hand soup 		

Step:2 Perform the experiment

Go to ALEF 107

Step:3 Fill the following table with your observations

Solution/mixture	pH value	Acid, base or neutral?
Drain cleaner		
Hand soup		
Blood		
Spit		
Water		
Milk		
Chicken soup		
Coffee		
Orange juice		
Soda pop		
Vomit		
Battery acid		

Step:5 CONCLUSION

Classify the following substances base on data you got from the experiment:

Drain cleaner- milk – blood -coffee- chicken soap – battery acid – soda pop

Strong acid	Weak acid
Strong base	**Weak base**

Step:4 Fill the following table with your observations

At the end of the activity check to see if your predictions were correct and complete the last column with evidence from your data.

Critical thinking:

How would the pH of **battery acid and drain cleaner be affected if you add water** to the solutions? Find the answer by testing it in the simulation. Use evidence and scientific reasoning to explain the results.