

Human Blood Plasma and pH



Lab # 3

Miss School, Miss Out!

Human Blood Plasma and pH

- **Question:** How does the addition of an acid affect the pH of blood plasma?
- **Hypothesis:**
- **Procedure:** Follow Instructions!
- **Observations/Data:**
- **Analysis:**
- **Conclusion:**

Human Blood Plasma and pH

Addition of an Acid

<i>Trial</i>	<i>Blood Plasma pH</i>	<i>Water pH</i>
Initial		
5 drops		
10 drops		
15 drops		
20 drops		
25 drops		

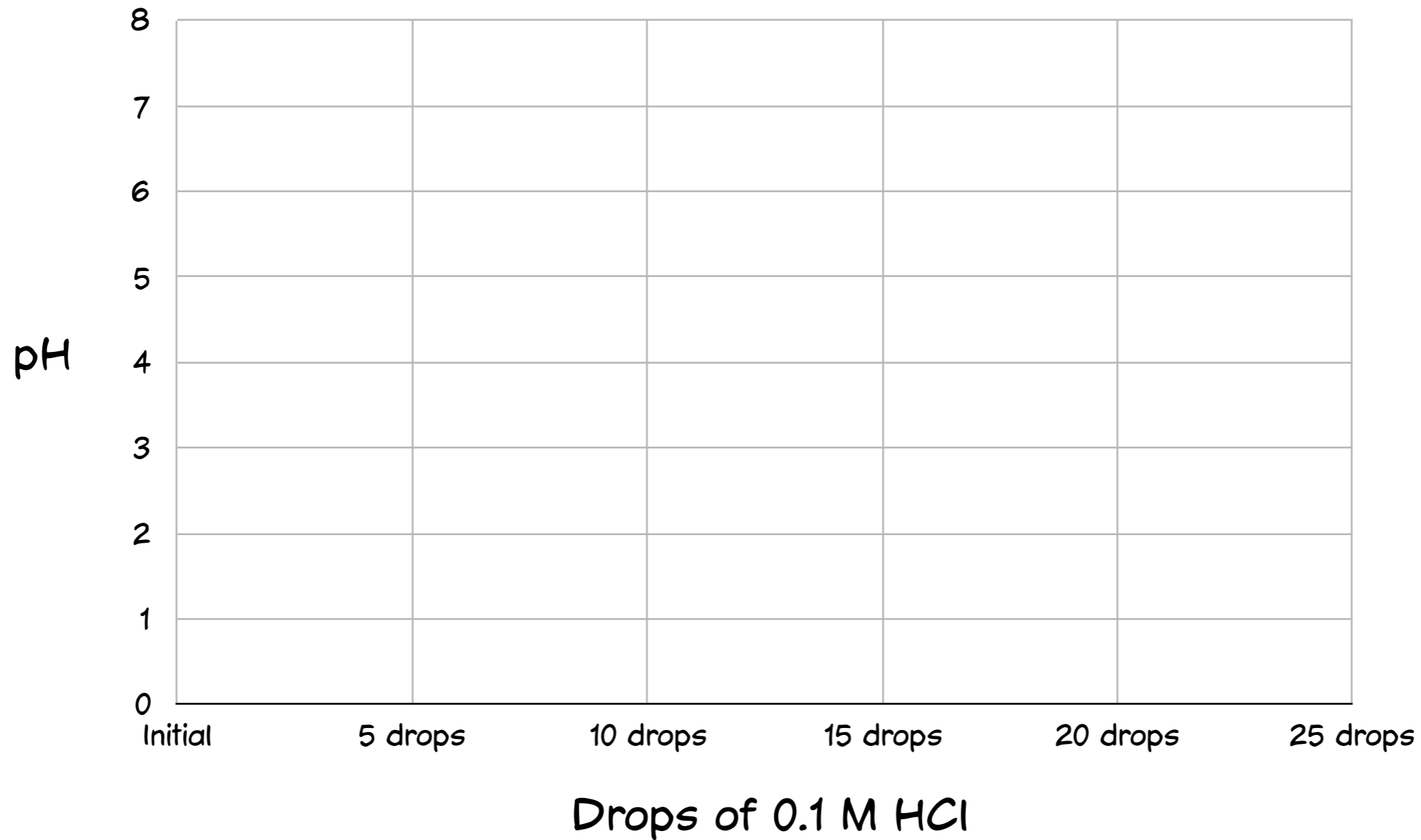
Human Blood Plasma and pH

Addition of an Acid

<i>Trial</i>	<i>Blood Plasma pH</i>	<i>Water pH</i>
Initial	7.4	7.1
5 drops	7.3	6.2
10 drops	7.4	3.5
15 drops	7.5	2.9
20 drops	7.4	2.8
25 drops	7.4	2.8

Human Blood Plasma and pH

pH Change with Addition of HCl

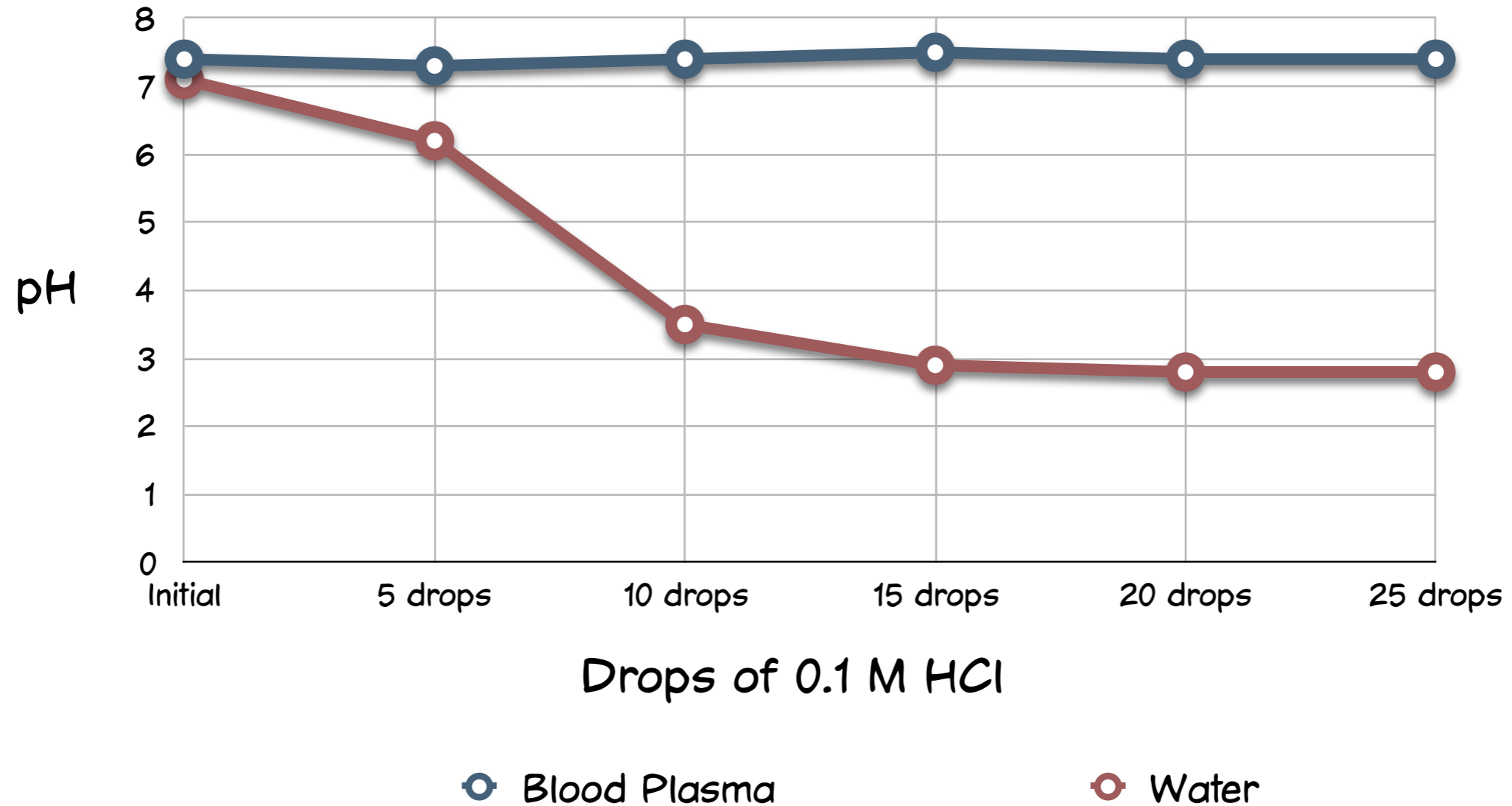


● Blood Plasma

● Water

Human Blood Plasma and pH

pH Change with Addition of HCl



Human Blood Plasma and pH



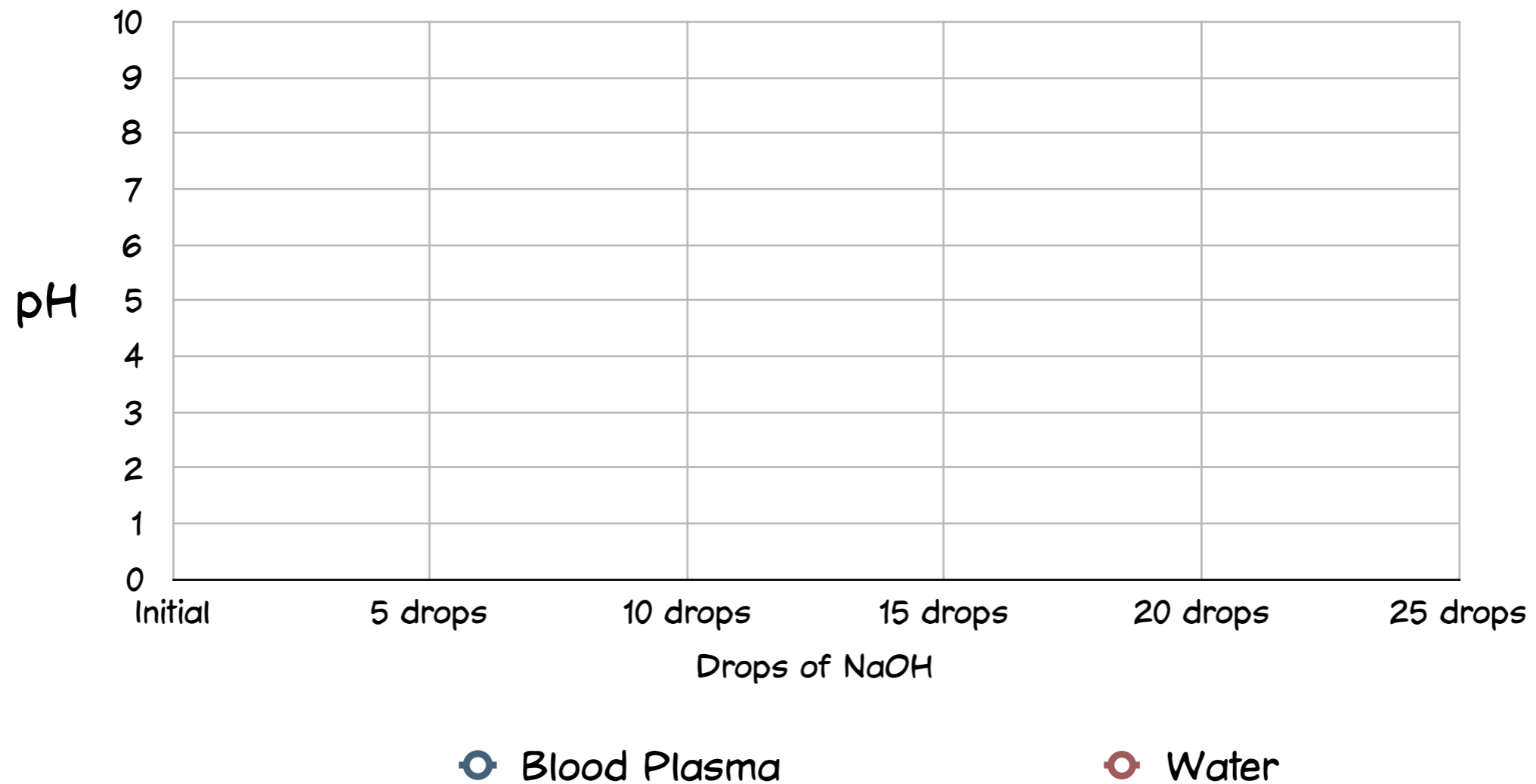
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Knowing how blood plasma is affected by the addition of an acid, how do you think blood plasma will react to the addition of a base? Why?

Human Blood Plasma and pH

Using the graph below, sketch two lines representing your prediction on how blood plasma and water will react to the addition of a base.

pH Change with Addition of NaOH



Human Blood Plasma and pH

Addition of a Base

Trial	Blood Plasma pH	Water pH
Initial	7.4	7.3
5 drops	7.3	8.1
10 drops	7.4	8.9
15 drops	7.5	10.4
20 drops	7.5	10.7
25 drops	7.6	10.8

Human Blood Plasma and pH

pH Change with Addition of NaOH

