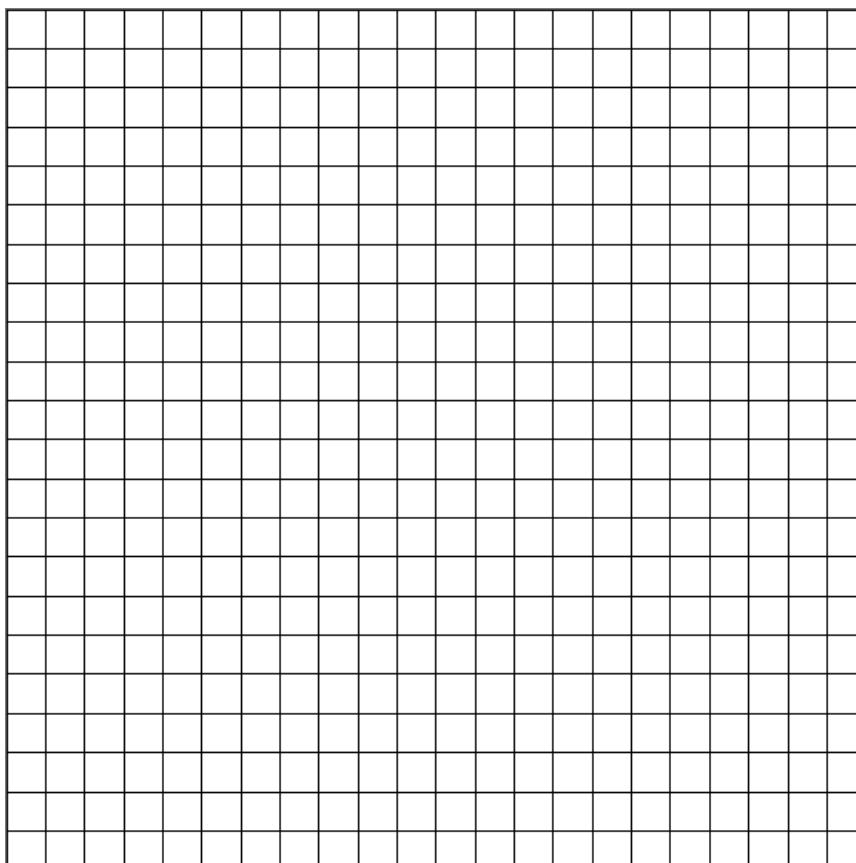**Density Worksheet**

Based on the work you did previously, complete this worksheet.

<u>Data</u>: This information was collected from a recent lab experiment involving 2 liquids.
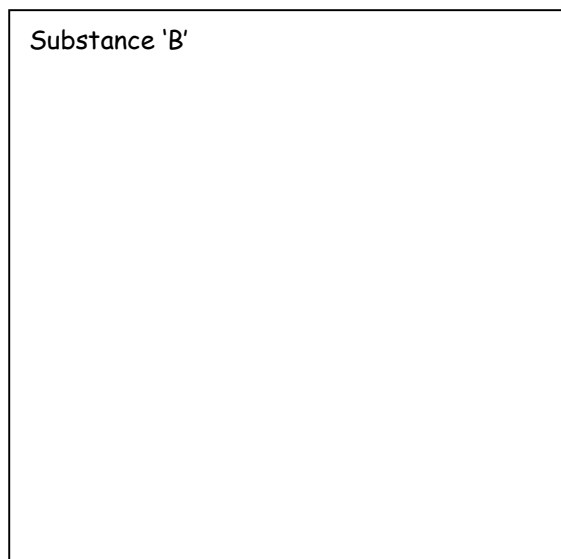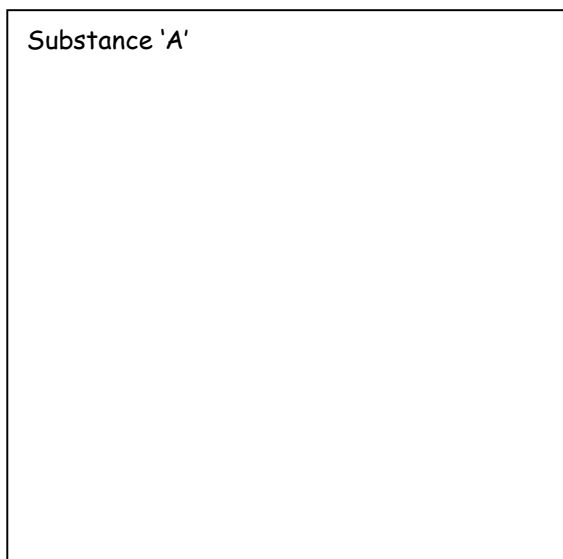
Substance A			Substance B	
Volume (ml)	Mass (g)		Volume (ml)	Mass (g)
10	11.3		15	12.0
25	27.6		30	23.8
40	45.0		52	42.2
75	84.3		80	65.1

<u>Graph</u>:   Put the above data on the graph given below. Include all labels and titles. Add a legend.

Analysis:

1. Draw a *line-of-best-fit* on the graph for each set of data.

2. Find the slope of each line. Show the work in the space below.

Substance 'A'	Substance 'B'

3. Which of the substances ('A' or 'B') has the greater density?

4. What is the density of substance 'A' according to your graph?

5. What is the density of substance 'B' according to your graph?

6. Water has a density of 1.0 g/ml. Where would you draw the line on your graph?

7. Submit this worksheet and begin Experiment B. You will need a ruler.