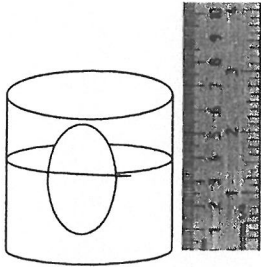


## Can an Egg Float?

Two students were doing an investigation to study the effect of salt water concentration on the amount an egg might float above the water level in a container. To determine the possible height an egg might float above a salt water solution, they increased the amount of salt in the water. The results of their experiment are shown in the data table.



Amount of Salt (mL)	Trials - Height of Top of Eggs (cm)			
	1	2	3	4
0	4	4	4	4
5	5	5	5	5
10	5	6	5	5
15	6	6	6	6
20	8	8	8	8

1. What is a testable question or problem that is the basis for this investigation?
2. Write an appropriate hypothesis for this investigation.
3. Identify the independent variable for this investigation.
4. Identify the dependent variable for this investigation.
5. Identify two variables, other than the one investigated, that could have an effect on the amount of egg floating above the water level.
  - 1.
  - 2.
6. Why is it important to hold some conditions constant during an investigation?
7. Identify two factors that should be held constant for this investigation.
  - 1.
  - 2.

8. Identify three pieces of laboratory equipment necessary to conduct this investigation.

1.

2.

3.

9. Use the data from Data Table 1 to construct a single line graph on the grid below. Be sure to provide:

- an appropriate title
- labeled axes with appropriate units
- appropriate number scales
- correctly plotted data

