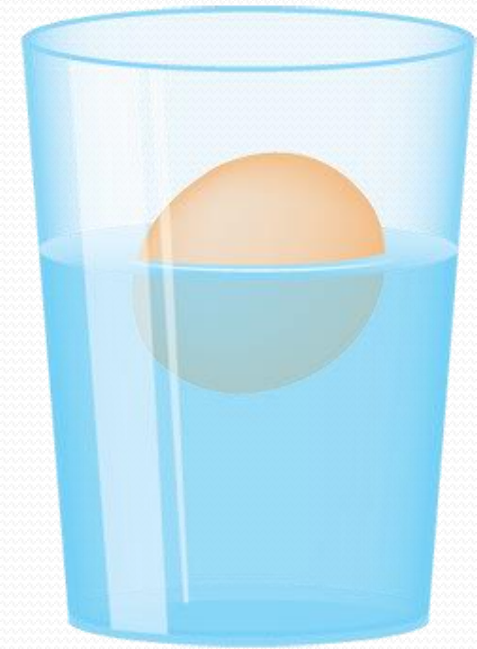


Floating Egg

- 1) Fill up your beaker with 250 mL of water.
- 2) Gently place the egg in the beaker.
- 3) Add salt, one teaspoon at a time, and stir after each spoonful.
- 4) Count how many teaspoons of salt it takes before the egg floats to the top (and stays there).
- 5) Calculate the salinity of the salt water.



$$\text{Salinity} = \frac{\text{mass of salt}}{\text{mass of water} + \text{salt}} \times 100$$

1 tsp salt = 12 grams

1 mL water = 1 gram

In your science journal...

Draw two diagrams (a before and after) that show your experiment and a caption that explains your results, including the final salinity of the water and how you calculated it.

Then answer the following:

- 1) What made the egg float?**
- 2) Would an egg float in the ocean (if the salinity is 3.5%)?**
- 3) What makes some oceans have higher salinity?**
- 4) What makes some oceans have lower salinity?**
- 5) What else could you do that would change the density of the water?**

