



Why do you float in The Dead Sea?

Salt water is more dense than fresh water. Density is defined as mass per unit volume. Simply, density is “the amount of stuff in a given amount of space.”

Since our body weight is less dense than the density of the surrounding salt water, our body is more buoyant in the Dead Sea, making it easy to float.

Let’s see how this works!

You will need to gather the following materials:

- 2 glasses of water
- 2 eggs
- Stirring spoon
- 1 tablespoon
- Salt

1. Gently place an egg into the first glass of water. Does it sink or float? (It should sink.)
2. Add about 6 tablespoons of salt to the second glass of water.
3. Stir until the salt dissolves, although the water may remain cloudy.
4. Gently place the second egg into the glass of salt water. Does it sink or float? (It should float. If it does not, add more salt to the water.)

One egg wasn’t heavier or lighter than the other. (In fact, please switch the eggs to see if you have the same results.) The reason the egg floated was because the salt made the water more dense.

What else do you think will float? Why do you think that?