

## DENSITY

**Density** is the measurement of how solid something is. Two things contribute to density:

1. The mass of the molecules that make up the material.
2. The amount of space (volume) the material makes up.

A 4"x4" block of Styrofoam will weigh less than a 4"x4" block of bricks, for example. Brick is solidly packed together with very little air in between the molecules, while Styrofoam is loosely packed together with lots of air in between the molecules.

Density and Buoyancy are closely related. A less dense substance will float on a more dense substance. So, our block of Styrofoam will float on water because it is less dense than the water. Our block of brick will not float because it is more dense than the water. It will sink.

**Directions:** Look at the five candy bars. Think about their mass, volume, and what ingredients make up each candy bar. Answer these questions:

- Which ones do you think are less dense than water?
- Which ones are more dense?

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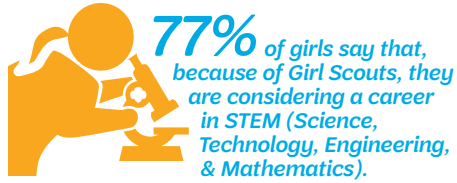
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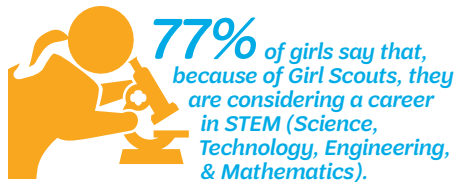
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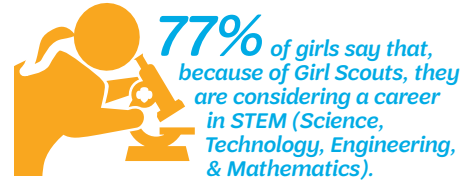
*The learning pyramid shows that people retain about 5% of information by hearing about it, 10% by reading about it, 30% by seeing it, and 75% by doing it themselves. When kids get their hands on exciting activities, it can inspire them to learn.*



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