



DOTS OF DENSITY

Density is about how much matter (or mass) is in an object. Below we have two objects. One represents water and the other represents syrup. Syrup is denser than water This means it has more mass in the same amount of space (or volume)

encil, create dots in the boxes to show the different

DOES IT SINK OR FLOAT?

If a liquid is denser than an object, the object will float in the liquid. If an object is denser than the liquid, it will sink in it. If they are the same, then it will be suspended in the middle.



The egg is more dense than the water.

In the image below, the golf ball is more to the water, the golf ball becomes less of

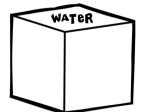
ball in the beaker. Then create dots to re

and water in both images.

Τŀ



The egg is less dense than the water when salt is added to the



an iron cube is denser than a wood cube because iron has e amount of space as a wood cube. Demonstrate that in the



en though they

e dense.

G BALL

FINDING DENSITY WITH A FORMULA

To find the density of an object, we must first know the mass of the object (in grams) and the volume ($1 \text{ cm}^3 = 1 \text{ ml}$). To find the mass of an object, we place it on a pan balance or a triple beam balance. To find the volume, we place it in a container of water and find the difference when the water rises.

Next, we use the formula \rightarrow density = mass \div volume.

1.) Now pick three different objects

ts.	Write	them	below	and	describe	them.	ŀ
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Object	Observations/Description
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3.) Of those objects above, which do you predict will be the least dense? Why?

we would first need to find the

Density=

Density=_

Density=_

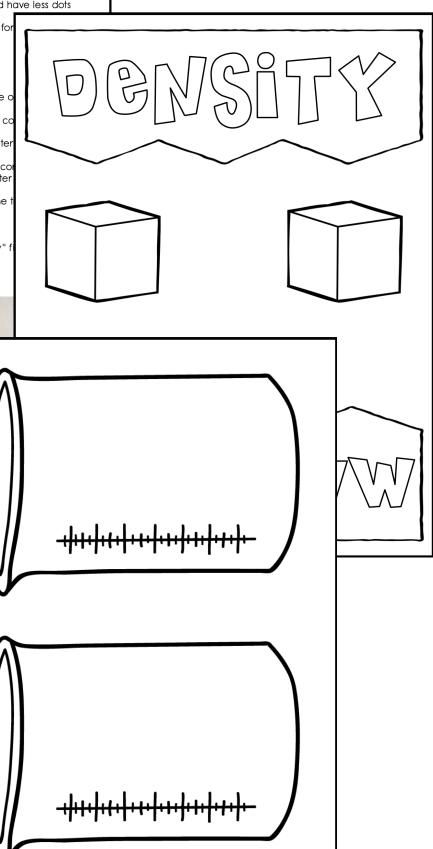
Density= 2 g/mL

Density= 3 g/mL

Density Craftivity Directions

- 1.) Complete the worksheets provided.
- 2.) Color the banner labeled "Density Matters."
- 3.) Decide what your two blocks will be. For example, one may be wood while the other is a rock.
 - Add density dots to represent how dense it is compared to each other.
 For instance, wood is less dense than a rock, so it would have less dots than the rock block.
 - Color them the color of the material you have chosen for lightly so you can still see the density dots.
- 4.) Cut out the blocks, banner, and beakers.
- 5.) Draw water in your beakers.
 - Add one of your blocks to one of your beakers and the other
 - Consider what the density of the water would look like co block.
 - Place the block near the top (if it would float in the water bottom (if it would sink).
 - Add density dots to represent how dense the water is collock you just added to the beaker. Then color the water still see the dots.
 - Glue the block where it belongs in the beaker (near the
- 6.) Get a large (12" x 18") piece of construction paper.
- 7.) Near the top glue down your banner with the word "density" "matters" after it.
- 8.) In the center, glue the two beakers side-by-side.

how much an object.



A COMPLETED EXAMPLE