

Cup Balance Scale

★ 1 EXPLORE

Mass is the space an object occupies.

Density is the amount of weight an object has for its size.

Two items can be the same MASS (size) but have different DENSITY (weight).

Compare a giant beach ball and a pumpkin

--> which has more MASS, which has more DENSITY?

★ 2 IMAGINE

If you fill Cup A with _____ and fill Cup B with _____

What do you think will happen to the balance? Draw a sketch (Hypothesis)

A large, empty rounded rectangular box with a thin black border, intended for a student to draw a hypothesis sketch.

3 CREATE

Experiment with different shapes, sizes, weight and number of pieces like

- popped popcorn & the same number of unpopped kernels
- sand & small pebbles
- crumpled tissue paper & crumpled foil

Try make the cups LEVEL using pennies or pencils

4 REFLECT

How fun was this challenge for you? (color in the stars)



Was it easy to get the cups LEVEL?

Which made the cup heavier, MASS or DENSITY?