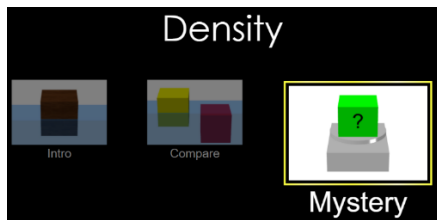


PhET simulation: Density

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$$\text{Density} = \text{Mass} / \text{total Volume}$$

Open the simulation and choose the third block. Mystery



Choose box 1A:

- Find the weight of box 1A. Record the weight
- Place box 1A completely in water: Record the change in water volume. Record the volume of box 1A
- Find the Density of Box 1A = Mass of box 1A/ Volume of box 1A.
- Open the Density table in the simulation

Material	Density (kg/L)
Wood	0.40
Gasoline	0.68
Apple	0.83
Ice	0.92
Human	0.95
Water	1.00
Glass	2.70
Diamond	3.51
Titanium	4.50
Steel	7.80
Copper	8.96
Lead	11.34
Gold	19.32

- What is the material of box 1A?
- Repeat the same step (b, c, d ,e) for all the other boxes (1B-1E), find the types of materials for each of the boxes.