

Density

Density

“Monkeys Drink Vodka”

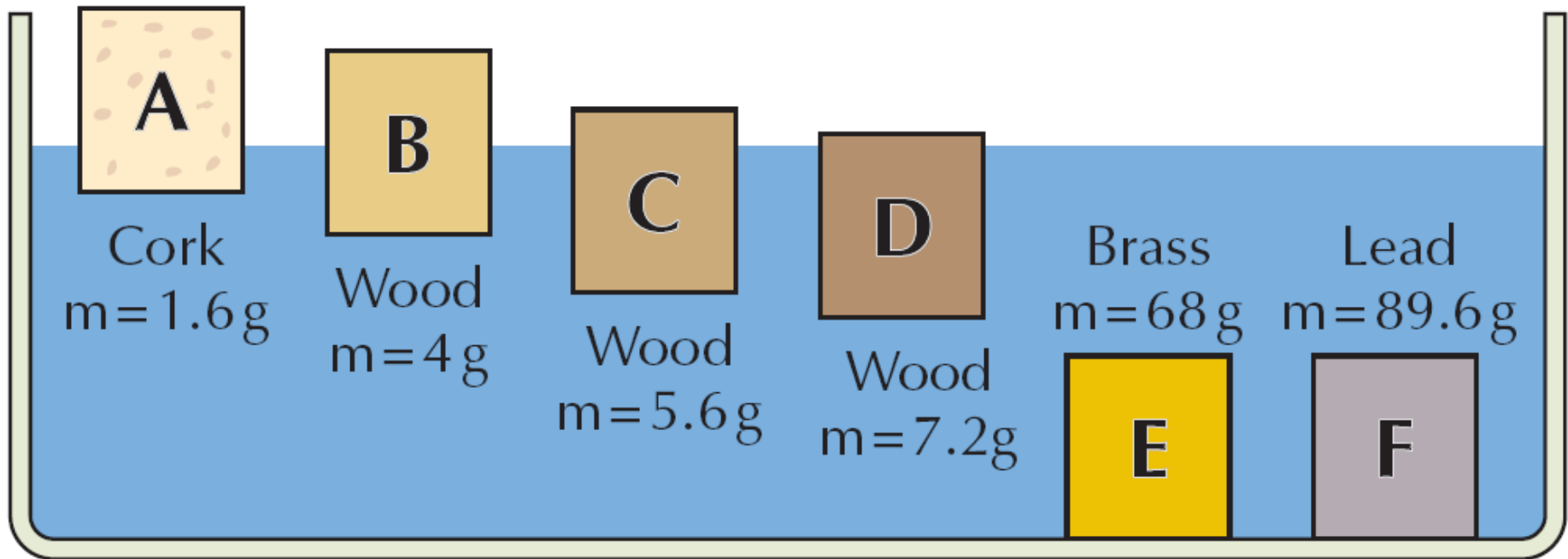
Definition: **Density** is Mass divided by Volume.

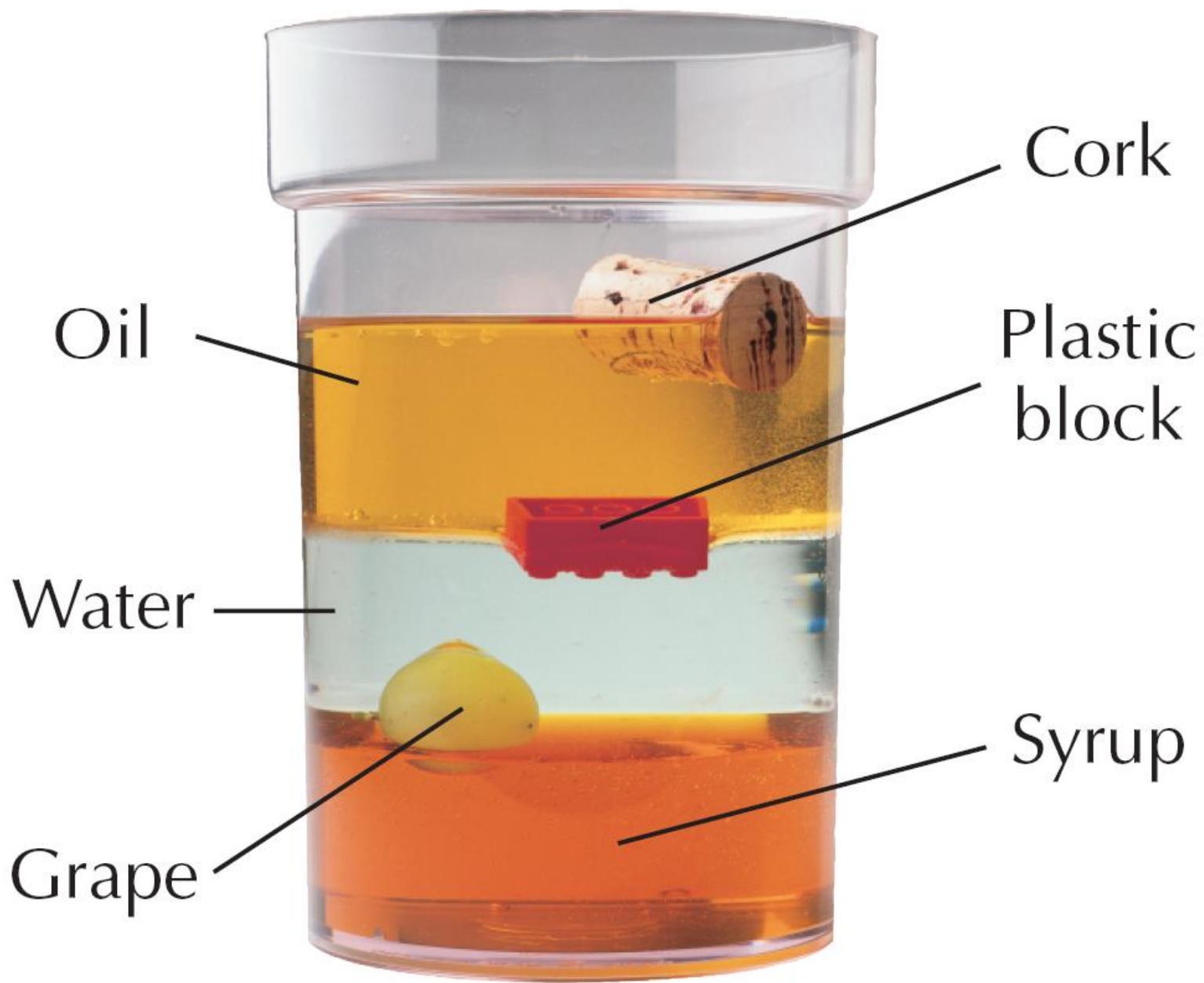
Formula: $D = M/V$

Unit: kg/m^3 or kg/l

Experiment: **To find the Density** we need to get the Mass and the Volume and then divide.

Less Dense substances float on more dense substances





Mandatory Experiment: To Find the **Density** of a Block.

Step 1:
Find the **Mass** of the Block

Step 2:
Find the **Volume** of the Block

Step 3:
Calculate the **Density**

g



cm³



$$V = L \times B \times H$$

g/cm³



$$D = M/V$$

Mandatory Experiment: To Find the **Density** of a Stone.

Step 1:
Find the **Mass** of the stone

Step 2:
Find the **Volume** of the stone

Step 3:
Calculate the **Density**

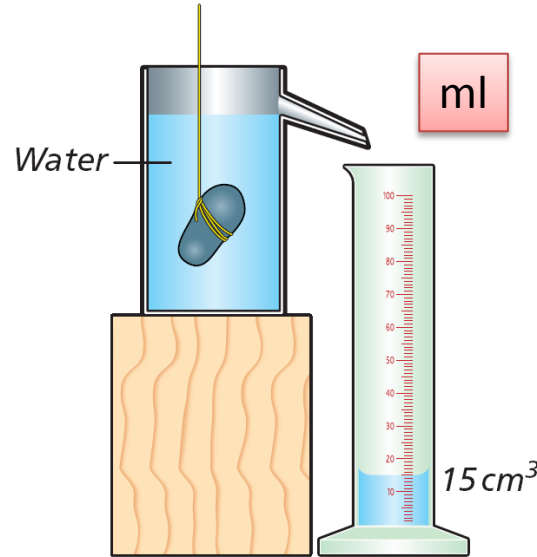


Fig. 32.7
Using an overflow can to find the volume of an irregular object



$$D = M/V$$

Mandatory Experiment: To Find the **Density** of a Liquid

Step 1:
Find the **Mass** of the liquid

Step 2:
Find the **Volume** of the liquid

Step 3:
Calculate the **Density**



g

Mass of Container with liquid
– Mass of empty container
= Mass of Liquid



ml



g/ml

$$D = M/V$$