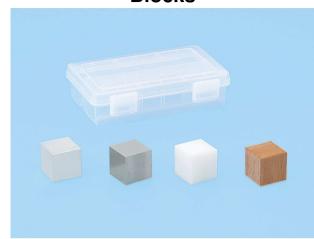
C15-5108-W0

Set of Four Assorted Density Blocks



[Product Description]

Set of four cubes (aluminum, steel, plastic (POM), wood) equal in volume (3 cm³) and different in masses.

[Overall Advantages to Users]

This set helps students better understand the concept of density through hands-on activities. It also helps students easily realize that the density of an object refers to the ratio of its mass to its volume.

[Benefit]

[To all users]

✓ Users can tell the difference both in appearance and mass between the four types of the substances just by putting each block on their palms one after another.

[To teachers]

✓ Each block is individually stored in a plastic case therefore it is unlikely to get scratched.

[To students]

✓ Shorter time required for analysis because the known and uniform size of each block enables easy calculation of experiments results.

[Specifications]

- •Blocks:
 - •Aluminum block: 1 pc, 72 g
 - •Steel block: 1 pc, 210 g
 - •Plastic block (POM): 1 pc, 39 g
 - •Wooden block: 1 pc, 13 g
- •Size: 30 x 30 x 30 mm (each)
- Accessory: Plastic storage case

[Keywords]

- Properties of matter
- Density
- Mass
- Volume

[Precautions]

✓ If dirty, wash the blocks with soap or neutral detergent, and then dry them well. Don't use a brush for washing because aluminum and steel blocks have rustproofed surface coated with varnish. ✓ Handle plastic and wooden blocks carefully because they can be scratched easily due to their uncoated surfaces.

[Example of Experiment]

• Measuring the density of a solid object:

[Objectives]

Students will know about:

- how the density of a substance is defined, and
- how the density of a substance is calculated using the formula: density = mass/volume.

[Procedure]

- 1. Measure the mass of each block using a precision balance.
- 2. Measure the dimensions of each block and calculate each volume. Or submerge the block in water in a measuring cylinder and observe the increase in the water level to directly measure the volume of the block.
- 3. Calculate the density of each block from its mass and volume using the abovementioned formula.

