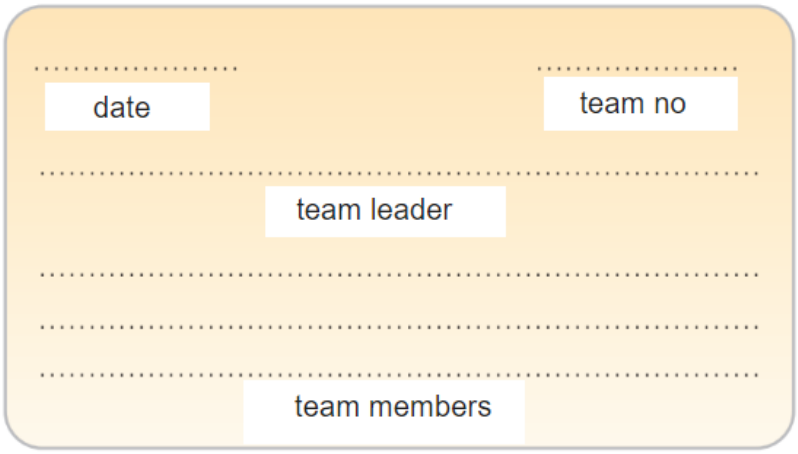
Measurement of items' density



Objective:

Measurement of items' density.

Instruments:

cuboid, cylinder, sphere, plasticine, paper clips (e.g. 50 pieces), weighing scales

The process of the experience:

1. Determine the mass of the items: cuboid, cylinder, sphere, plasticine, 50 ^{3}
2. Note the results in the table.
3. Enter the volumes of these items into the table (use the results obtained in the previous experiment).
4. Calculate the density of these items using the formula p=m/V, round the calculation results to 0.1 g/cm^3 and save them in the table.
5. Compare the obtained density results with the densities listed in the table at the end of the book. Try to identify the substances of which the items used in the experiment are made.

1. Table of the results' measurement

Item type	Mass (g)	Volume (cm^3)	Calculated density (g/cm$^{3)}$	Density read in the table of the manual (g/cm^3)	Name of the substance from which is the item made
Cuboid					
Cylinder					
Sphere					
Plasticine					
Paper clips					

Space for calculations

2. Formulate conclusions based on the obtained results.

3. Try to explain why knowing the density of a substance is useful (you can explain it with examples).