

### Archimedes principle

When a body is fully or partially immersed in a fluid, it experiences a **weight loss** which equals to **the buoyant force** (upward force/-upthrust) which is equal to the **weight of fluid displaced by it**.

### Application of Archimedes principle

- 1) Used in designing ships and submarines.
- 2) In Lactometers to find the purity of milk.
- 3) In Hydrometers to determine the density of liquids.

### Concept of float and sink

FLOAT:

relative density

upthrust > weight of object

$d_{\text{fluid}} > d_{\text{object}}$

SINK:

upthrust < weight of object

$d_{\text{fluid}} < d_{\text{object}}$

density of substance is the mass per unit volume.



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Not published yet.

Last updated 7th January, 2024.

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