

THEORY

When a body is placed in a liquid, it experiences an upward force called upthrust or buoyant force. This force is equal to the weight of the liquid displaced by the body. This is known as Archimedes' principle. If the weight of the body is greater than the upthrust, it will sink. If the weight is equal to the upthrust, it will float. If the weight is less than the upthrust, it will rise to the surface and float.

APPARATUS

- 1. Spring balance
- 2. Beaker
- 3. Water
- 4. Immersed weight
- 5. Thread
- 6. Stop watch

Procedure:

EXPERIMENT



Weight	Weight in water	Upthrust
100g	80g	20g
200g	150g	50g
300g	220g	80g
400g	290g	110g

Result: The upthrust is equal to the weight of the liquid displaced by the body.