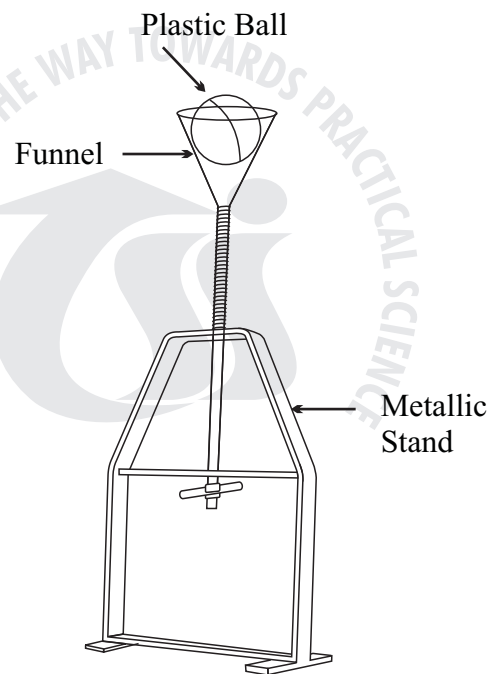


INERTIA OF MOTION

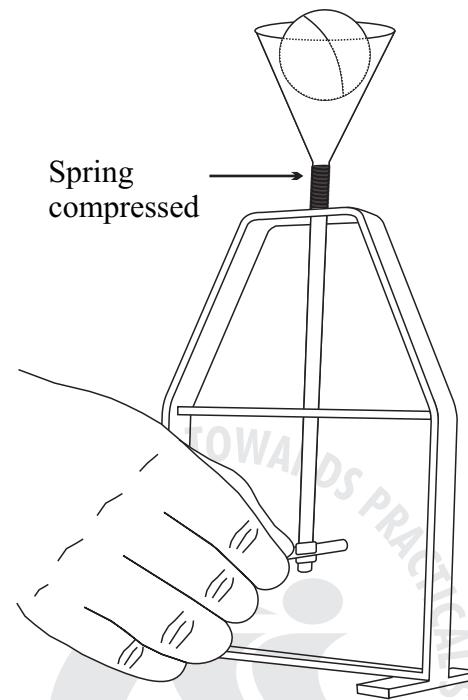
A body continues to be in a state of uniform motion, after the force applied on it ceases.

Assembly :

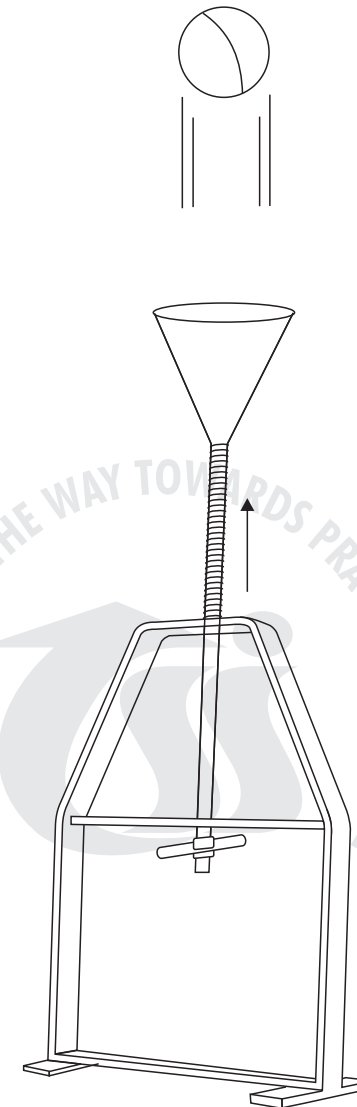
A funnel held over a spring which is mounted on a metallic stand. A table tennis ball rests inside the funnel.



To do and observe :



Step-1 : Pull the funnel down using the handle at the bottom. The spring gets compressed



Step-2 : Release the handle.
Funnel and Ball together move upwards.
Funnel is held back after moving certain distance,
but the ball keeps moving up.

What is going on?

According to Newton's first law of motion every body continues to be in its state of rest or state of uniform motion along a straight line unless it is compelled by an external force. A body which is in motion continues to be in motion along a straight line unless it is acted upon by an external unbalancing force.



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Sir Isac Newton
(1642-1727)



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