

What is going on ?

According to Newton 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 acted by an external un balanced force. i.e. All the bodies resist to change their state of rest or state of motion. This tendency of the bodies to resist change in their state is called inertia. Here the coin is at rest when it sits on the top of the ring. When you remove the ring under the coin, you enable gravity to act upon the coin, and coin falls in the tube.



Sir Isaac Newton



**RING
INERTIA**

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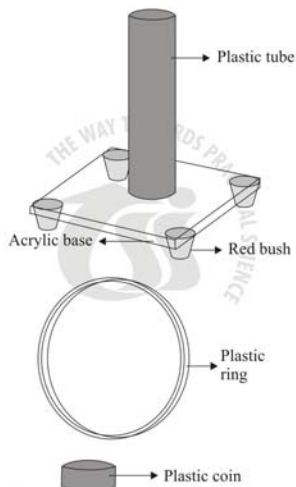
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RING INERTIA

Pull the ring and watch as gravity and inertia take hold

Assembly : A plastic tube of length 90 mm and of dia 35 mm is fixed on a 6 mm clear acrylic base. The base is provided with 4 red coloured bushes. A plastic ring (of diameter 160 mm and of width 30 mm) and a plastic coin (of diameter 25 mm and thickness 8 mm) are part of the kit.



To do and observe :

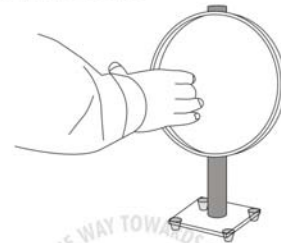
Step 1 : Keep the plastic ring on the plastic tube as shown above.



Step 2 : Keep the plastic coin on the plastic ring such that it is exactly above the opening of the plastic tube.



Step 3 : Now pull the ring suddenly as shown in fig with your hand.



You will observe that the coin will fall in the plastic tube. **You can do it with a little more practice.**

