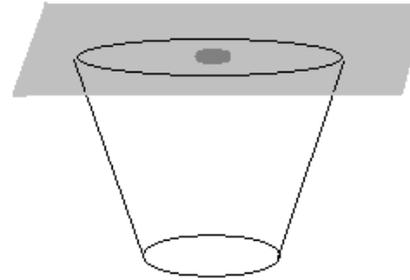
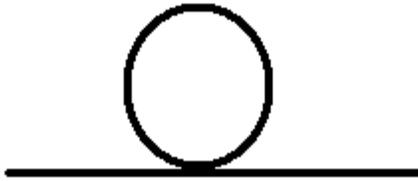
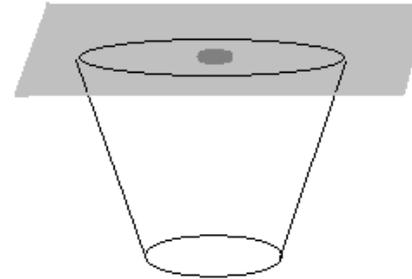


Demonstrate the effects of friction and inertia.



<b>FRICION</b>	<b>INERTIA</b>

Demonstrate the effects of friction and inertia.



## FRICTION

**Resistance to a moving object**

*A marble moves slower across a carpet than across a hard floor.*

*A bicycle slows down when the breaks are pressed.*

*Roll a marble or toy car across different surfaces, and list which had the most friction.*

## INERTIA

**The tendency of a moving object to continue moving at the same speed and direction**

**The tendency of an unmoving object to remain stationary**

*A person lurches forward when the car suddenly stops.*

*A coin stays in place when paper is quickly pulled from beneath it.*

*Use small objects to demonstrate inertia. A popular trick is to put an index card on a cup with a coin on the card. Pull the card quickly and the coin will stay in place due to inertia, and then fall in the cup.*

## F&M-3&4 Information Pieces

<p><b>Resistance to a moving object</b> F&amp;M 3&amp;4</p>
<p><b>The tendency of a moving object to continue moving at the same speed and direction</b> F&amp;M 3&amp;4</p>
<p><b>The tendency of an unmoving object to remain stationary</b> F&amp;M 3&amp;4</p>
<p><i>A marble moves slower across a carpet than across a hard floor.</i> F&amp;M 3&amp;4</p>
<p><i>A bicycle slows down when the breaks are pressed.</i> F&amp;M 3&amp;4</p>
<p><i>A person lurches forward when the car suddenly stops.</i> F&amp;M 3&amp;4</p>
<p><i>A coin stays in place when paper is quickly pulled from beneath it.</i> F&amp;M 3&amp;4</p>

*To Make Your MatchCard more durable:*

- 1. Put the student MatchCard and instructor MatchCard back to back in a clear plastic page protector.*
- 2. Laminate the information pieces. Or you can make them sturdier by covering the paper with transparent tape prior to cutting the pieces out.*
- 3. For more ideas on how to use the MatchCards, and for keeping a notebook for review, see the Instructor's Guide.*