

Free Particle Model

Activity: Metal Ball Motion

As part of our study of motion and forces, in this activity you will push a metal ball across the table using a paint brush.

Predictions	Observations
<p><i>How can you make the metal ball move as described using only the paint brush bristles?</i> <i>Explain using words and pictures.</i></p>	<p><i>After successfully producing the given motion, describe how you did it.</i></p>
Accelerate the metal ball from rest.	
Stop a moving metal ball.	
Keep a moving metal ball moving at constant velocity.	
Move the ball from one side of the table and back as quickly as possible, without going over the edge.	

<p>With a moving metal ball, make a sharp left turn.</p>	
<p>Travel at constant speed along the table.</p>	
<p>Move the ball around a circle as quickly as possible.</p>	