Free Particle Model

Activity: Bowling Ball Motion

As part of our study of motion and forces, in this activity you will push a bowling ball across the gym floor using a broom.

Predictions	Observations
How can you make the bowling ball move as	After successfully producing the given motion,
described using only the broom bristles?	describe how you did it.
Explain using words and pictures.	·
Accelerate the bowling ball from rest.	
-	
Stop a moving bowling ball.	
Stop a moving bowning ban.	
Keep a moving bowling ball moving at	
constant velocity.	
Move the ball from the end court line to the	
free throw line and back as quickly as possible,	
without overshooting either line.	

With a moving bowling ball, make a sharp left turn. Travel at constant speed along the 3-point line.
Travel at constant speed along the 3-point line.
Travel at constant speed along the 3-point line.
Travel at constant speed along the 3-point line.
Travel at constant speed along the 3-point line.
Travel at constant speed along the 3-point line.
Travel at constant speed along the 3-point line.
Travel at constant speed along the 3-point line.
Travel at constant speed along the 3-point line.
Travel at constant speed along the 3-point line.
Travel at constant speed along the 3-point line.
Travel at constant speed along the 3-point line.
Travel at constant speed along the 3-point line.
Travel at constant speed along the 3-point line.
Travel at constant speed along the 3-point line.
Travel at constant speed along the 3-point line.
Traver at constant speed along the 3-point line.
Move the ball around a jump circle as quickly
as possible.