

How Much Force Does It Take to Accelerate Objects?

What is Needed
A marble
A basketball

What to Do
Place a marble and a basketball on the table. Give each an equal flick with your finger. What happens? What do you experience?

What is Happening
To show how the force required to accelerate an object varies with the mass, you are using a heavy basketball and a lightweight marble. The marble, having the smaller mass, will move rapidly. The smaller the mass, the easier it is to accelerate the object.

Purdue University Physics Dept. Physics on the Road Hands - On Lida Wu Illustrate

