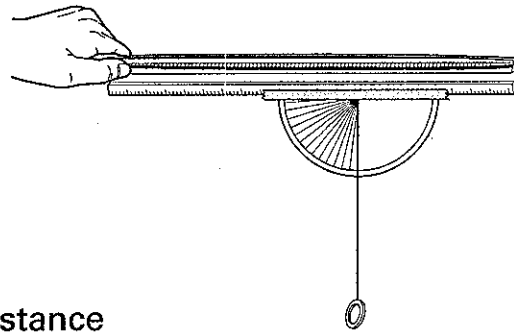


Rubber Band Blast



What You Want to Know

How does the distance a rubber band travels depend on the launch angle?

What You Think Will Happen

The rubber band will travel the greatest distance horizontally when it is launched at an angle of

- a. 90°. b. 0°. c. 45°. d. 30° or 60°.

What Happened

Record the launch angle and the distance that the rubber band traveled horizontally (the *range*). For each launch angle, add the three range numbers, and then divide by three to get the average range. Record the average range in the third column.

Launch angle	Range			Average range
0°				
15°				
30°				
45°				
60°				
75°				
90°				

What It Means

What do your observations tell you about which launch angle has the greatest range?

Are there any pairs of launch angles that have about the same average range?

If you want to spray water with a hose, at what angle do you think you should spray the water to have it go the farthest horizontal distance?

