

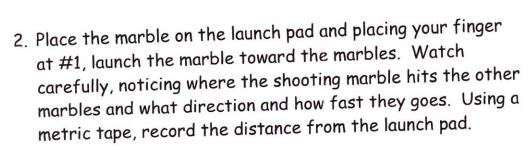
## The Marble Challenge

Problem: What effect will force have on an object's motion?

**Materials:** 5 small marbles, 1 shooting marble, pencil, launching pad,  $12 \times 18$  sheet of construction paper, metric tape

## Procedure:

 Set 5 marbles inside a circle drawn in the middle of the sheet of construction paper (see diagram).



Launch Pad

3. Return the marbles to their original position and launch from #2. Record the distance the marbles are from the launch pad.



## The Marble Challenge

Name	Date
ar annual control of the control of	ow where your marbles ended up:
Launch #1	Launch #2

2. Complete the chart recording the distance the marbles were from the launcher to compare your results:

Marble	Launch #1	Launch #2
Α		
В		
С		
D		
Е		

3. Does the amount of force affect the distance the marbles traveled?
Explain your answer:
4. Do all the marbles move in the same direction?
Explain your answer:

## Launch Pad for Marble Challenge

