



May the Force Be with You

Grade 3 Science

Name: _____

Date: _____

In the *Knock Out!* video, you learned about the game of marbles. In this activity, you will investigate the science behind this game.

PART 1: MAKING PREDICTIONS

You are going to use the eraser end of your pencil to apply force to the marble to make it move in certain ways. Write your predictions here:

The marble will move...	I will make the marble move this way by...	I think this will work because...
very slowly		
very quickly		
in a straight line		
in a diagonal line		

PART 2: TESTING YOUR PREDICTIONS

Place the “Try It Out” paper on a smooth, flat surface like your desk, a table, or on the floor (as long as it is not carpeted). Stack up some books along the edges of the paper to keep the marble from getting away. Put your marble in one of the circles. Use the eraser end of your pencil to apply force to the marble to make it move like the description in the circle. Try this for all the circles. Record your results.

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TRY IT OUT

VERY SLOWLY

VERY
QUICKLY

IN A
STRAIGHT
LINE

IN A
DIAGONAL
LINE



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PART 3: RESULTS

Here is where you record what happened when you tested your predictions.

When I tried to make the marble move...	...this is what happened:	If I were to try again, I would...
very slowly		
very quickly		
in a straight line		
in a diagonal line		

