

Marble Run Activity Kit

Supplementary Materials



Annotated Materials List

Tubing	What you can use for tubing: (1) Pool noodles cut lengthwise (2) Cardboard tubes (from toilet paper or paper towel rolls) (3) 2-3 inch wide strip of cardboard or poster board (make sure it is thin enough so that you can mold it into a u-shape).
Marbles	Marbles come in lots of sizes which can open up additional opportunities for exploration (e.g., do marbles of different sizes travel down the ramp in the same way?). You just want to make sure that the size of your ramp accommodates the size of your marbles.
Tape	Any type of tape will work for this activity kit and you do not need much. Our only suggestion here is that you use tape that can be easily applied/removed without harming your tubing.
Index Card	The index cards are used at the end of the tubing to catch the marbles at the end of the track. If you do not have index cards, scrap paper and/or cardboard would work as well.
Play-dough	Any type of play-dough would work for this activity, you just want to make sure that it can stick to the cardboard/foam board surface that you are using for activity #2.
Cardboard	The cardboard pictured in our directions is 9x12 inches, though you can use any size (this just impacts how much play-dough you'll need). Foam poster board also works as a base.

More Science Concepts

Kinetic Energy: is energy created by motion.

Application: The marble has more kinetic energy the faster it goes.

Potential Energy: the energy an object has when placed in a specific relation to another object

Application: The marble has potential energy each time you place the marble on the track. The higher on the track you set the marble the greater the amount of potential energy. The strength of the potential energy tells you how far the marble will go.

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Friction: the resistance of one object when moving along another object

Application: Friction helps hold the marble on the track, as it rubs against the solid track, it keeps its traction.

Extension

We hope you had fun making marble runs two different ways. There are actually lots of ways to make a marble run: for ideas on how to make a different kind of track, check out this video: [Marble Drop Video](#)