Geared Marble Run
Investigation #1

Description
Let's gear up and get those marbles moving!

Materials
• Rokr Mechanical Marble Run
• Steel balls
• A friend

Procedure
1) Build the run according to the kit directions.
2) Place one of the balls in the lift, crank the handle, and watch.
3) What do you notice?
4) Can you figure out how the mechanism works?

My Results
Explanation

Turning the main crank sets the gears in motion. The spur gears mesh and transmit or send power through the system. Additionally, the large spur gear is used to carry the ball to the top, where the ball can roll down through the various chutes and turns. The shaft running below the lift buckets is driven by the front spur gear. Because each support is oval in shape, the chutes are lifted sequentially as the oval parts rotate.

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