MARBLE RUN CHALLENGE

THE BRIEF

Use a cardboard box and cardboard struts to create a marble run. The marble must run for 60 seconds.

https://www.youtube.com/watch?v=IN0Wn0XgPXQ

https://www.youtube.com/watch?v=RwZzOhHGLzw







WHAT WILL YOU NEED

 Cardboard – egg boxes, toilet rolls, toothpaste boxes



• scissors



marbles

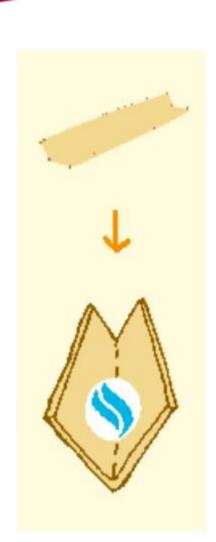


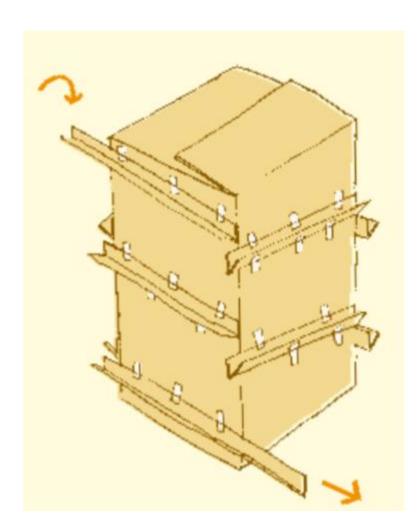


THE METHOD



- 1. Use sticky tape to attach the cardboard struts to the cardboard box, creating a run for the marble.
- 2. Place the marble at the top of the run and time how long it takes for it to reach the bottom.
- 3. Keep improving your design until the marble takes exactly 60 seconds to reach the bottom.





How does it work?

To help you to control the time your marble takes to run its course you'll need to consider a few factors:

Potential energy = mass x gravity x height

The heavier your marble and higher your slope, the more energy your marble will have.

Friction

The rougher or stickier the surface, the slower your marble will travel.

Angle of the slope

The less steep the angle of the slope, the longer the marble will take to reach the bottom.

LOOK WHAT WE MADE





