



GATEWAY REGION YMCA NEWTON'S CRADLE

We learned about equal and opposite reactions previously. When this happens in a collision – two objects hitting one another – the energy is transferred from one object to the other. Let's see what happens when we try to transfer the potential energy (energy gained by gravity) to kinetic energy (motion) with marbles.

Supply List

- Cardboard
- Scissors
- String
- Marbles or beads

Instructions

1. Cut out a brace from the cardboard for your Newton's Cradle
2. This can be easier with an already shaped box (ex. A tissue box)
3. Once constructed, lay out 5 strings reach about half the height of your box
4. Either thread the beads or tape the marbles onto the string
5. Attach the strings to the frame
6. Now you should have a Newton's Cradle!

For more information about this activity visit:
gwrymca.org/blog/steam-activity-newtons-cradle

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