Stored Energy

In this activity, a metal "rod" can be made to roll back to you automatically when pushed away. What's at work behind the phenomenon?

Not only will this activity encourage critical thinking as your child tries to figure out what happened, but it will also serve to reinforce the physics concept of stored energy!

What You Need:

- Large metal coffee can with a lid that clips into the top
- · Electric drill

- 7. Now take the two ends of the elastic rubber band up through the lid holes, put the lid on the can and tie off the two ends.
- 8. Roll the can away from you: this should "wind up" the elastic bands, causing the can to roll back again!

The rolling can stores energy in the elastic rubber band because the weight always hangs down as the can rolls in one direction. Have your child try making a second one in a clear plastic container to see how it works!

Don't have a drill handy? Try following the directions using a cardboard oatmeal canister, and carefully use a pen to poke holes in the bottom and the lid.



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