Self Feeding Escalator

materials: Batery motor speed controler screwdriver, marble shaft cardbord, old smoke detector, brocken toy.
Exra matereals: hot glue gun and cutter, and sisors, and LED light

How is this science related.

This uses gravity energy and batery energy also reausing

experement 1: Does the motor work ☑ conect motor to the batery and see if the works

experement 2: Battery voltage ☑ using multimeter 7.7 volt

I measured the peices using a measuring tape

I cut the pieces using a cutter

I glued the pieses using the hot glue

Hypothesis: will having 2 power sorses make the escalator faster?

Problems: First the moter was making the escalator slower so I bought a better one. Second the belt was wasent working I tried 4 whole times and finaly the 5th one worked. Finaly third when I tured on the motor 30 mins later the hot glue I used to stick the motor on melted so I put super glue instead

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Why did I choose this project: I chose it because I really love escalators and how they work and how electricity works

Experiment #1: I used a 6 volt battery and used a 1 min timer and the ball went up 9 times

Experiment #2: I used a 9 volt battery this time it went 15 times

9V:15 cycle > 6V:9 cycle

final touch: I thought my escalator was missing something. the light looked dim. So I decided to add some LED lights.

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