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# Rube Goldberg Machine

## “The Timmy Waterer”

For our Rube Goldberg machine we chose the simple task of watering a plant and make it incredibly complicated by adding many extra steps to achieve the goal. We start by dropping a marble down a ramp which starts as mechanical energy and changes to gravitational energy as we moved the marble and the ramp kept on an angle which kept it moving. The marble then landed inside of a plastic container milk pulley contraption which is mechanical energy that then hit a captain crunch cereal box. The box fell and hit the other boxes and rip off LEGO which started a chain reaction of mechanical energy, the last rip off LEGO in the line hit a weight that was attached to a string. The force of the boxes hit the weight and the weight fell down a ramp and it continued to fall down the stairs, mechanical energy in gravitational energy out. As the weight falls the string is pulled up, the end of the string is attached to a LEGO wall and as the weight falls the wall is moved which is mechanical energy. When the wall is out of the way the car is able to move down the ramp and hit the water bottle, gravitational energy in mechanical energy because the bottle was moved forward by the hit. After the bottle is hit it releases the perfect amount of water to water my plant Timmy.

