



THE NATIONAL
WWII MUSEUM

MAKE YOUR OWN TOY RACER!

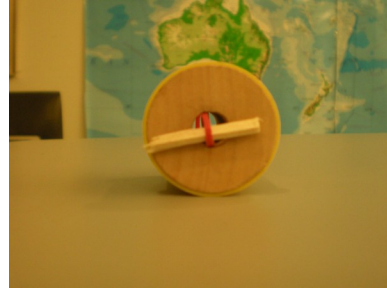
Based on cotton reel tanks made by British children during WWII

Step 1



Insert the rubber band through the spool

Step 2



Insert the matchstick into the rubber band and secure it with tape

Step 3



On the opposite side, pull the rubber band through the hole in the washer and pull tight

Step 4



Pull the pencil through the rubber band and twist. Once you let go, it will race forward

Potential and Kinetic Energy

Energy drives motion.
Energy is broken into two categories,
potential and kinetic

Potential Energy is stored energy. When you twist the rubber band, your racer is storing energy for use later. Once you let it go, it becomes kinetic.

Kinetic Energy is the energy of motion. When something is moving, it is kinetic. When your racer moves, it converts potential energy into kinetic energy.