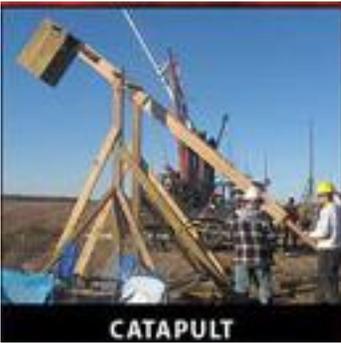


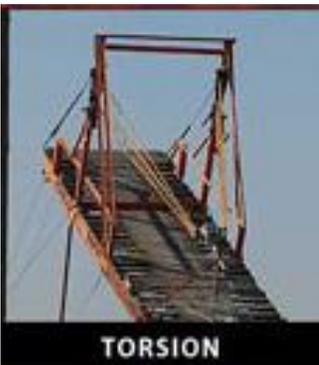
# PUMPKIN CHUCKER EXAMPLES

## Catapult



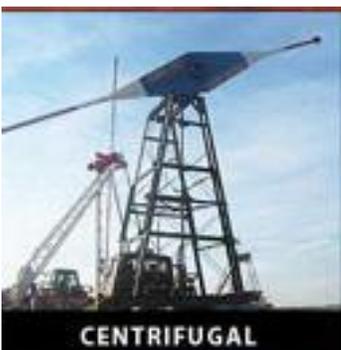
A machine using stretched springs or rubber bands, which store energy. When the springs or bands are pulled and then released, the stored up energy is transferred to the arm of the device, which hurls the pumpkin.

## Torsion



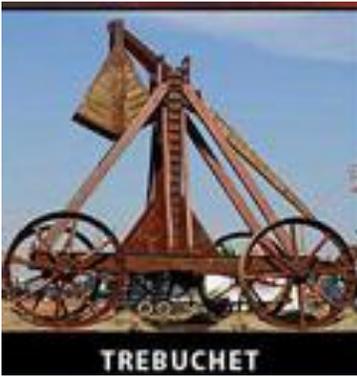
A Torsion machine is any device that uses twisted rope as its primary source of power. It relies on a rope that works by torsion or twisting. The rope stores mechanical energy when it is twisted. The amount of force it releases is proportional to the amount it is twisted.

## Centrifugal



Any machine with an arm that spins at least 360 degrees to launch a pumpkin. The basic idea in a centrifugal is to accelerate a pumpkin by spinning it in a circle many times, with each rotation gaining more and more momentum until it can build up enough energy to propel the pumpkin forward.

## Trebuchet



The basic idea of a trebuchet is to transform the potential energy stored in the lifted heavy mass into the kinetic energy that is the motion of the smaller mass (the pumpkin). It uses a short arm, which is weighted down with a heavy object to counterbalance against the long arm, where the projectile (the pumpkin) is placed. When the heavy mass of the short arm falls down, it provides energy to fling the long arm.

Descriptions can be found at [howstuffworks.com](http://howstuffworks.com), "What is Punkin Chunkin?"