

# LEVERS & CATAPULTS: CATAPULTS : LESSON - CLASS 3

Catapults are levers. Catapults were used in ancient and medieval times in order to launch objects long distances. There are many different catapult designs throughout history. We will be learning about 2 different designs: class 1 and class 3. We will be using elastic bands to power the catapults!

Elastic bands, also known as rubber bands, have energy. They have **potential energy** and **kinetic energy**.

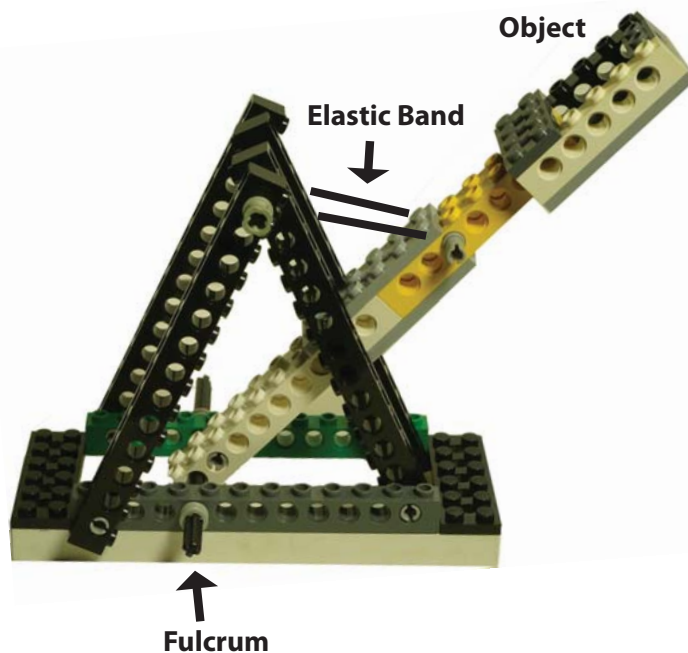
**Potential Energy** is “stored” energy as it is not yet moving.

**Kinetic Energy** is energy that is in motion.

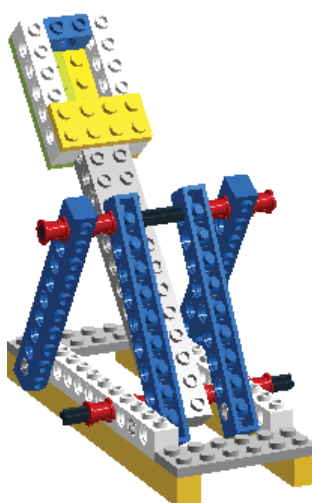
For example, if you stretch out an elastic band it has potential energy. When you let go, it will fly across the room having kinetic energy.

## Class 3 Catapult Design

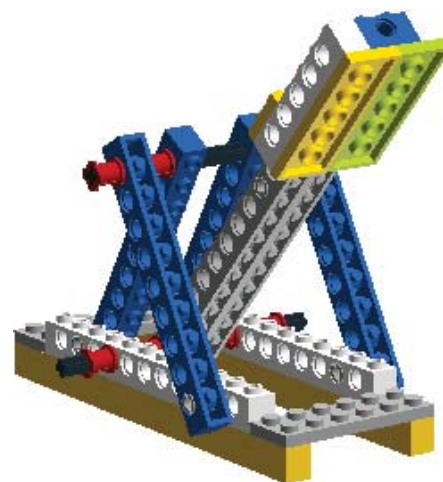
In a class 3 design, the fulcrum point is located at the end of the arm, the elastic band is in the middle, and the object is at the other end.



Front Angle View  
No Side Supports



Front Angle View



Back Angle View