

LEVERS & CATAPULTS: CATAPULTS : LESSON - CLASS 1

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**.

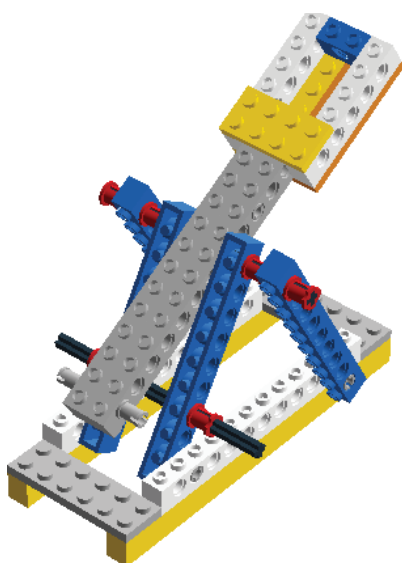
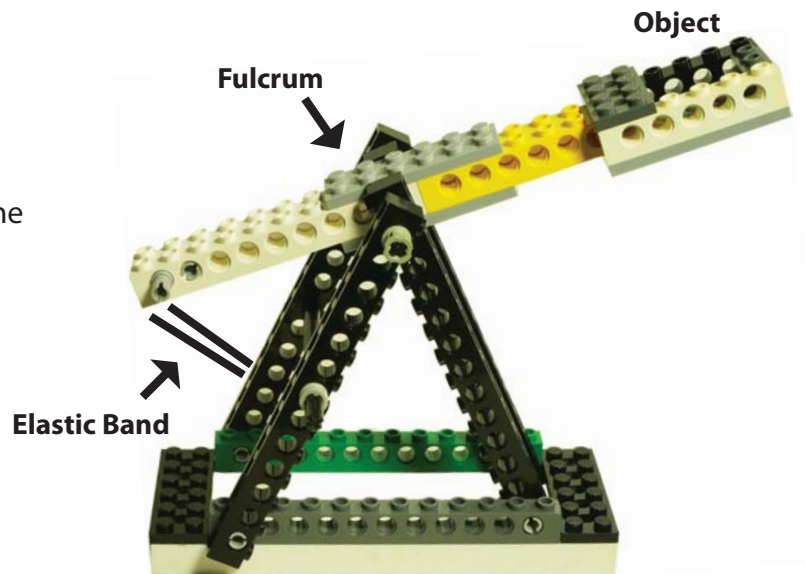
Potential Energy is “stored” energy as it is not yet moving.

Kinetic Energy is energy that is in motion.

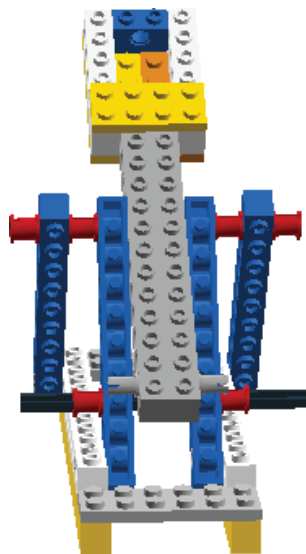
For example, if you stretch out an elastic band it has potential energy. When you let go, it will fly across the room having kinetic energy.

Class 1 Catapult Design

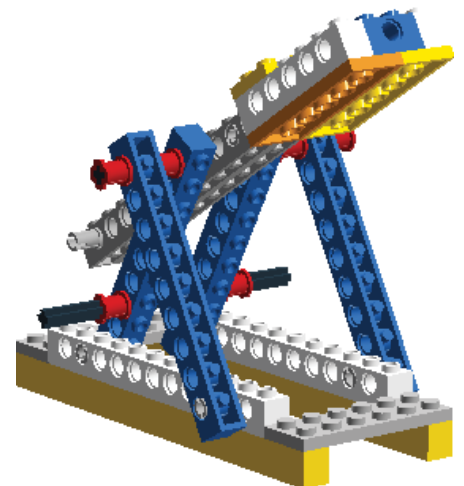
In a class 1 design, the fulcrum point is in the middle of the arm, and the elastic band and the object are on opposite ends of the arm.



Front Angle View



Front View



Back Angle View