

## Catapults are Way Cool

A **catapults** is a device used to launch an object a great distance without the aid of an explosive bang. Catapults have been used effectively for centuries especially for hunting and as weapons during times of war.



Catapults work by storing **force** either in twisted ropes, stretched bands, or flexed pieces of wood or metal. The force stored in these bent objects is used to push other objects of choice into the air and toward a target. These objects might include an arrow shot from a bow, a pebble shot from a slingshot, or a boulder shot from an ancient army catapult.



In this STEM Challenge, your task is to to build a catapult that can shoot a marshmallow over a protective wall. The wall protects the fortress of the evil king and queen inside who cruelly rule over their suffering people. If you can bombard the fortress with deadly marshmallows from your catapult, the evil rulers will certainly be overcome and the people can be freed.

### Your catapult should include a:

1. Strong base
2. Flexible arm to store the force
3. Cup or device to hold your ammo.

### Materials you can use:

3 craft sticks, 6 popsicle sticks, 10 tiny rubber bands, 2 regular rubber bands, 10 inches of masking tape, 1 plastic spoon, dixie cup, 1 marshmallow