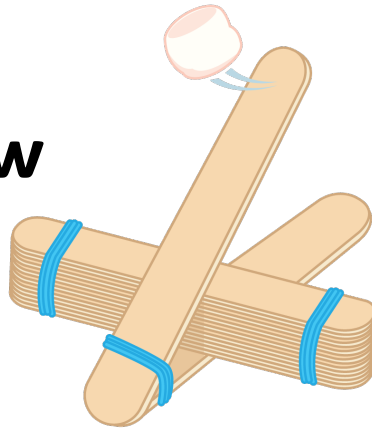


# Fun with Science



## Marshmallow Catapult



### Things you will need:

- 10 Lolly sticks
- 3 Elastic bands
- Marshmallows

### Instructions:

Pile 8 of the lolly sticks on top of each other and then fix them together with an elastic band wrapped round tightly on each end. Then place your other two lolly sticks in a V shape around the pile – one under and over. Then join this together with an elastic band. This will now work as a catapult that you can use to fling your marshmallows.

### The science behind it:

This all has to do with Newton's laws of motion. The first one being that an object stays at rest until a force is applied – our marshmallow is not going anywhere until we catapult it. When you pull down the arm of the catapult the elastic creates potential energy which is stored until you release the arm. It then changes to kinetic energy, this means energy that is moving. This kinetic energy is transferred to the marshmallow which then flies through the air. The more energy applied to the arm of the catapult, the further the marshmallow should go – test this out.