

## Section 3

### Understanding Matter and Energy

#### EXPLORATION 2

## The Secret Energy of Elastic Bands

Discover how elastic bands can be a source of energy.

Did you know that elastic bands can store energy like batteries do? When you release a stretched elastic band, it snaps back to its original shape using the energy that it holds. This energy is known as elastic energy. Look around your house and neighbourhood to find things that can be stretched. All stretchable things, like balloons, trampolines, and slingshots, store elastic energy. Once they are stretched and let go, they are able to return to their original shapes using their stored elastic energy.



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### Understanding Matter and Energy

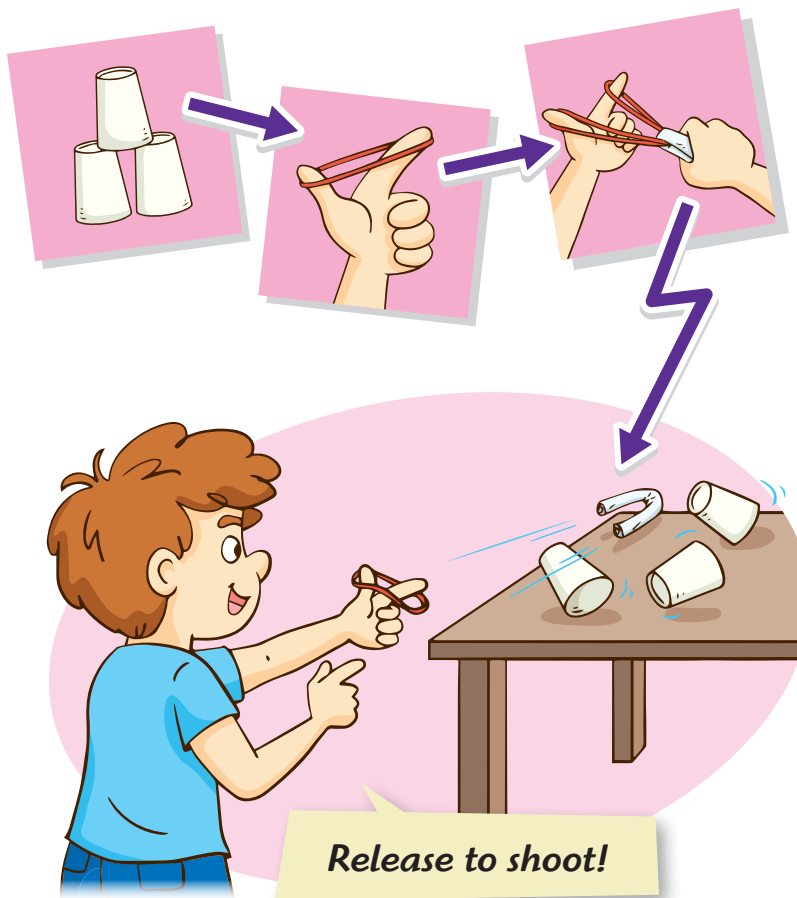
EXPLORATION  
2

# The Secret Energy of Elastic Bands


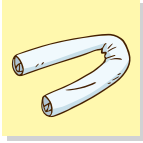
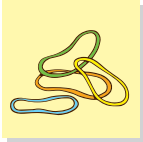
Try this game to find out more about the elastic energy stored in elastic bands.

## Elastic Band Slingshot

### Steps:



### Materials:

-  3 paper cups
-  a strip of paper (rolled and bent)
-  elastic bands in different sizes and thickness

Through this game, you may have noticed that the size and thickness of elastic bands affect the amount of stored elastic energy. Did you find out which elastic band had the most elastic energy?

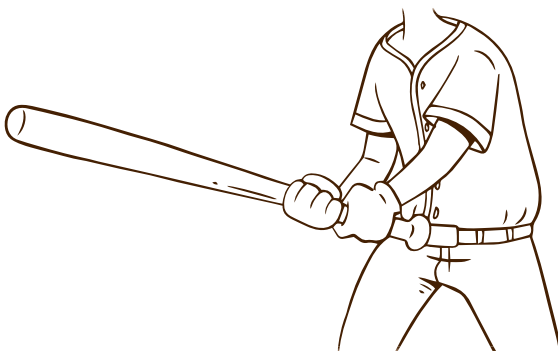
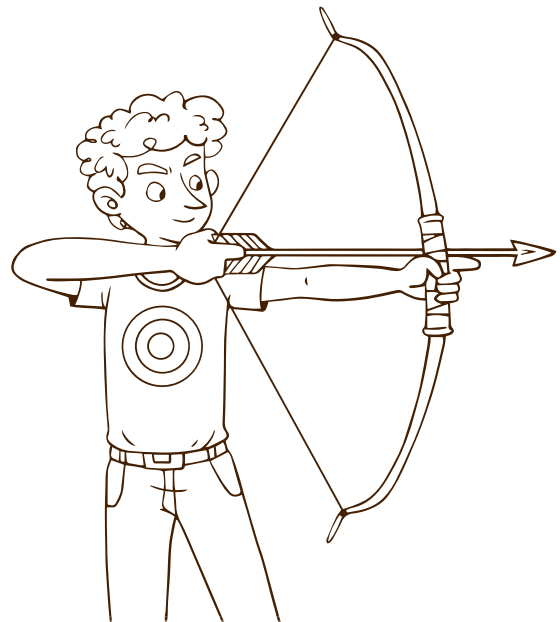
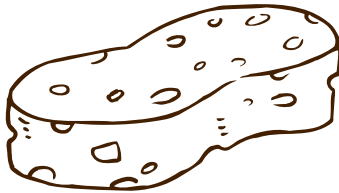
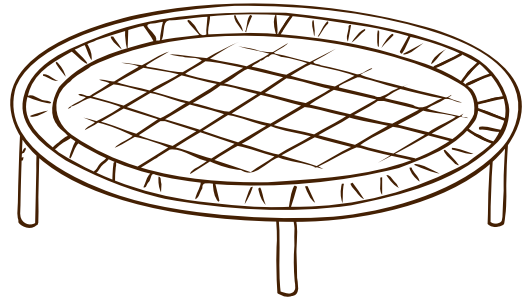
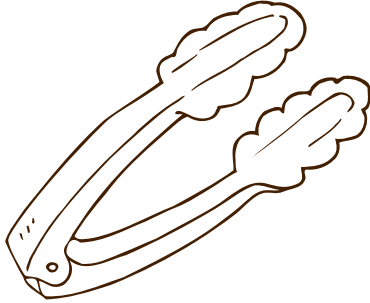
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# The Secret Energy of Elastic Bands

Look at each object. Colour the one that stores elastic energy.



Have you noticed that all the objects that store elastic energy are stretchable and flexible?

