

 Make a Catapult

*Santa has lost his presents! Make the best catapult you can to help get the presents back into his sleigh.*

1. Take some lolly sticks and rubber bands and construct your catapult using the demo as a guide.
2. Test your catapult, does it launch the presents very far?
3. What do you think you could do to improve your catapult to send the presents further?
4. Try out a new design and test it – can you get the presents back into the sleigh?

**The Science**

You fire the catapult by pushing on the lolly stick. When you let go, it springs back into position, *transferring its energy* into the present, causing it to fly!

The bigger the angle, the more energy will be transferred to the presents.