



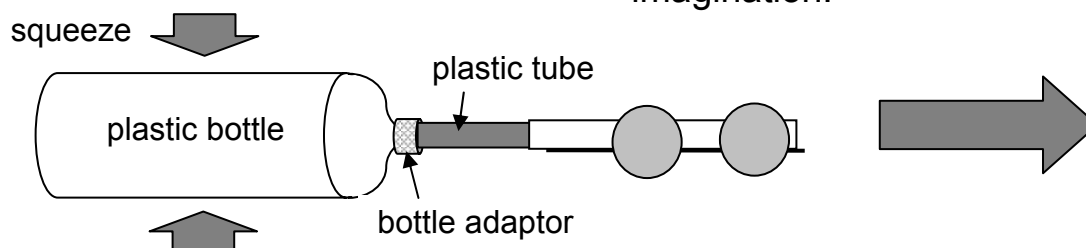
# Try this at home!

## TAKE HOME KIT:

- tube roller
- blue bottle adaptor

## You will also need:

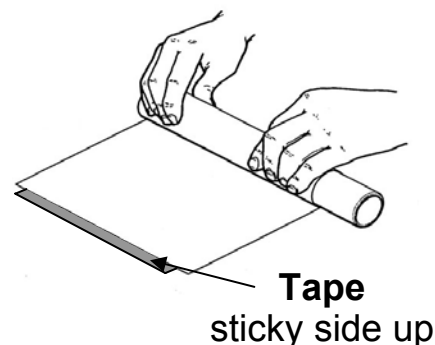
- A4 paper and card
- sellotape or masking tape
- plastic bottle
- imagination!



Use the take home kit to race your car at home or make a rocket launcher.

## Make a Bottle Rocket Launcher

1. Roll a piece of paper or card around the plastic roller to make a tube.
2. **Seal one end** of the tube with masking tape. Make sure there are no holes in the end cap.
3. Leave the rocket on the tube until testing.



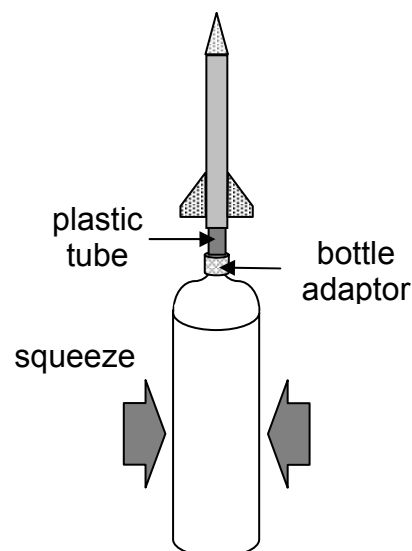
## MAKE YOUR NOSE CONE AND FINS:

4. Make a cone and fins from thin card.
5. Decide how many fins you need and what shape they will be. Where and how will you attach them?

☺ **Top Tip:** A cone can easily be made from a circle.

☺ **Top Tip:** Try to keep the friction and air resistance forces as small as possible. Do your fins and cone have an aerodynamic shape?

6. **Launch!** Squeeze the bottle.



**Don't point your rocket or car at anyone during launch!**



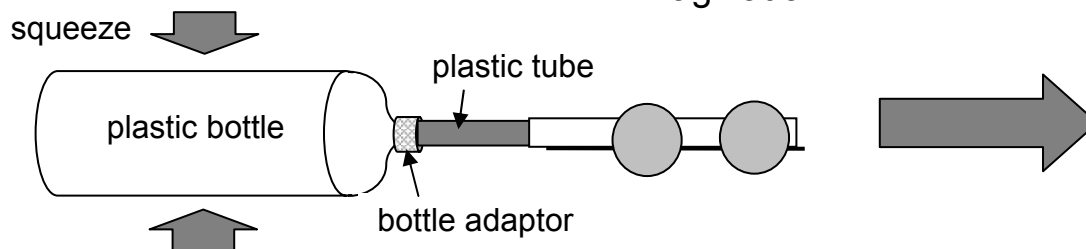
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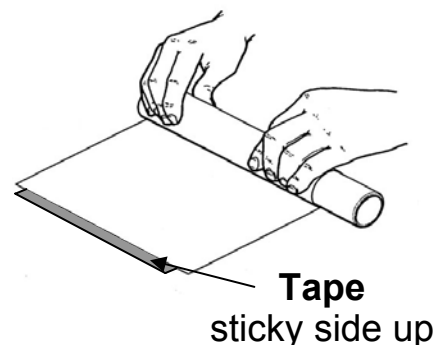
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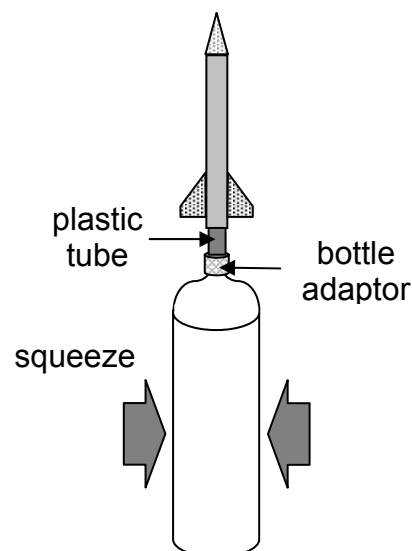
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