EXPERIMENTING WITH FORCES
ROCKET LAUNCHING

EQUIPMENT

- 2 ltr pop bottle – empty!
- 2.2cm diameter pvc pipe cut to 30cm length
- 1 sheet A4 paper
- 1 sheet printed with nose cone and fins
- Scissors
- Masking tape
- Felt tips for decorating your rocket

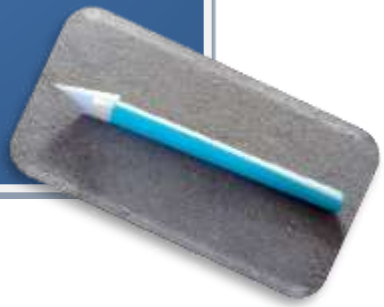
LET'S BUILD

1. Roll blank A4 paper round the pipe to make the body of the rocket. Don't roll it too tightly or your rocket may have problems when launching – friction will hold it back.

2. Put masking tape along the edge to seal it.

3. Cut out the semi-circle and make the nose cone. Seal it with masking tape.

6. Attach the nose cone firmly to the rocket with masking tape.



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LET'S BUILD

7. Cut out fins – they are the parallelograms printed on the sheet of paper.
8. Attach to the base of the rocket. They will help to stabilise it in flight.
9. Insert the pvc pipe into the bottle neck.
10. Put rocket onto tube – it should move along the tube easily.

LAUNCH

Put the bottle underneath your arm with rocket pointing forward. Squeeze like you are playing the bag pipes and see how far your rocket will fly. Compressed air forced from the bottle pushes the rocket forward.

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