Arvind Gupta
Toys from Trash
www.arvindguptatoys.com/toys.html

- Step-by-Step Photo Guide
- Detailed Worksheet

See 1 minute video at:
http://www.youtube.com/watch?v=ji3csQaeBs4&feature=plcp
MATERIALS

PLASTIC BOTTLE

RUBBER BANDS

COLOUR CELLO TAPES

BEAD

THREAD

SCISSORS

PLASTIC BALL
CUT PLASTIC BOTTLE ALONG RED LINE (10-CMS FROM LID)

CUT PLASTIC BOTTLE ALONG RED LINE
WE WILL USE ONLY THE LEFT PART

MARK 4 LINES AT RIGHT ANGLES
MAKE 1-CM DEEP CUTS ALONG ALL 4 MARKS
INSERT TWO RUBBER BANDS AS SHOWN IN CUTS
THE TWO RUBBER BANDS WILL MAKE CRISS-CROSS IN CENTER
SIDE VIEW SHOWING CRISS-CROSS RUBBER BANDS
TIE THREAD AT JUNCTION OF RUBBER BANDS
MAKE A SMALL HOLE IN THE LID
WEAVE THREAD THROUGH LID AND TIE A BEAD AT THE END
PULL BEAD TO STRETCH RUBBER BANDS
PLACE BALL ON JUNCTION
PULL BEAD TO STRETCH RUBBER BAND AND GENTLY RELEASE TO THROW BALL IN THE AIR.
BALL GOES UP MORE THAN 15-FEET!!
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Step-by-Step Photo Guide

Detailed Worksheet

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1. Cut bottle 10-cm from lid. Discard the base.
2. Mark four lines at right angles on rim.
3. Make 1-cm deep cuts on all four lines.
4. Insert two rubber bands in cuts. They will criss-cross in the center.
5. Make a small hole in the lid.
6. Tie a thread at the junction of the rubber bands and weave it through the hole. Tie a bead at the end of the thread.
7. Place the ball on the junction. On pulling the bead and releasing it...

The stored energy in the stretched rubber bands propels the ball.