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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=Wia2-6Kq8KE
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**MATERIALS**

- PLASTIC BOTTLES
- CELLO TAPE
- RING MAGNETS
- STIFF STRAW
Embed stiff straw in sand to make it stand erect.

Place few ring magnets in the straw.
The above magnets are lifted because similar poles REPEL.

The upper 3 magnets are repelled by the 3 magnets below.
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Stick yellow tape 10-cm from the lid

Cut bottle along the edge of the yellow tape
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Discard the base
We will only need this part

Cut a dozen strips for fan blades
A dozen fan blades

Radiating fan blades
Flatten the Blades

Twist each petal to make fan blades
Place two magnets inside and outside the lid.

Both the magnets will stick to each other.
Magnets will attract and stick to each other

Place Propeller on straw and it will Levitate

Place under Ceiling Fan to see the Propeller Spin
Close-Up of Levitating Spinner whirling under a Ceiling Fan
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1. Make a propeller from a 500-ml plastic bottle. Make a hole in the bottle lid.

2. Screw the lid with the hole on a bottle half filled with sand. Press fit a stiff straw in the lid. Embed the straw in the sand to make it stand erect.

3. Place a few ring magnets in the straw. Similar poles will repel each other.

4. Place two magnets each inside and outside the propeller lid. These magnets will automatically stick to each other.

5. Place the propeller on the stiff straw. The magnets in the straw and the propeller should repel each other. This will make the propeller levitate. On placing it under a ceiling fan the propeller will spin very fast!