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

☑ Step-by-Step
☑ Photo Guide
☑ Detailed
☑ Worksheet

See 1 minute video at:
https://www.youtube.com/watch?v=5kkzvrOQYFI
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Step-by-Step
Photo Guide

Detailed
Worksheet
SAFETY PIN WILL STICK TO A FERRITE MAGNET

STICK RUBBER PIECE & MAGNET ON CD
STAND A PENCIL IN THE RUBBER PIECE
FIX IT IN PLACE WITH GLUE

STICK HALF ICE-CREAM STICK TO PENCIL
SAFETY PIN WILL STICK TO A FERRITE RING MAGNET

STICK TWO RING MAGNET ON THE END OF ICE-CREAM STICK

STICK RUBBER TRIANGLE FOR SUPPORT & STRENGTH
STRONG RING MAGNET

SAFETY PIN WILL STICK TO MAGNET

RING MAGNET

INSERT RING MAGNET IN PEN

PEN BODY WITH SPIRAL TAPE

RING MAGNET

STRONG RING MAGNET
**PROJECT READY TO ASSEMBLE**

**SQUARE MAGNET (NO-HOLE)**

**STAND PEN MAGNETS MUST ATTRACT**

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IT WRITES
IT SPINS!
IT FLOATS!

SPIN PEN TO 
ROTATE IT FOR 
A LONG TIME
FLOATING SPINNING PEN

CLOSE-UP VIEW OF PEN TIP
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CLOSE-UP VIEW OF PEN BASE
The pen will stand erect. Twist it to keep it spinning!

1. Place the pen tip on the base magnet.

2. This model is based on the basic principle that like poles attract while unlike poles repel each other.

3. Insert two magnets on both ends of a pen.

4. Stick two magnetic rings on top of the ice-cream stick.

5. Stick half an ice-cream stick to the pencil on top.

6. Fix it in place with rubber glue.

7. Stand a pencil in the hole of the rubber piece.

8. Stick a rectangular ring with rubber glue. Its south pole should be facing up.

9. Stick a rectangular ring on a CD.

10. Make a hole in the rubber piece.

Standing Pen

Magical