

Attraction and Repulsion

We've looked at magnetic levitation. Now let's consider how magnets work.

Part 1: Bar Magnets

What You Need: 2 bar magnets (red with North and South poles marked)

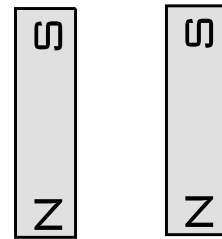
What To Do: Arrange the magnets on the pictures as shown.

Draw an arrow on each magnet picture to show which way it wants to move.

Circle **ATTRACTION** if they come together. Circle **REPULSION** if they push apart.



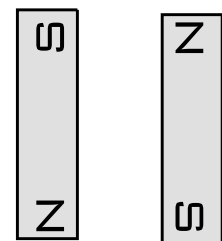
ATTRACTION OR REPULSION?



ATTRACTION OR REPULSION?



ATTRACTION OR REPULSION?



ATTRACTION OR REPULSION?



ATTRACTION OR REPULSION?

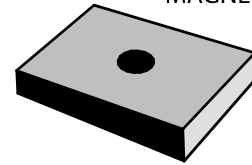
CONCLUSION: Like poles (ATTRACT or REPEL). circle one

Opposite poles (ATTRACT or REPEL).

Part 2: Latch Magnets

This one is a little trickier. Can you figure it out?

LATCH
MAGNET



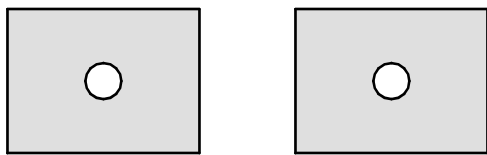
What You Need: 2 latch magnets

What To Do: Arrange the magnets on the pictures as shown.

Draw an arrow on each magnet picture to show which way it wants to move.

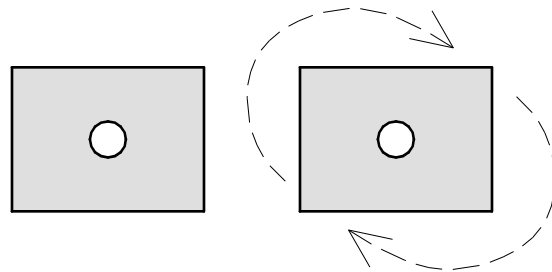
Circle **ATTRACTION** if they come together. Circle **REPULSION** if they push apart.

1) Side by Side



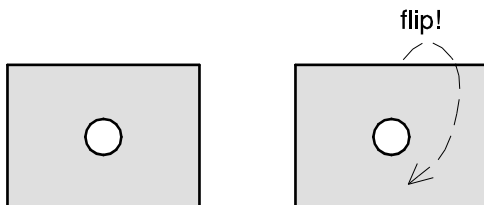
ATTRACTION OR REPULSION?

2) Leave both magnets on the table, but spin one of them halfway around and try again.



ATTRACTION OR REPULSION?

3) Now flip over just ONE of the magnets and try again.



ATTRACTION OR REPULSION?

4) Do the latch magnets behave differently than the bar magnets?

5) Where do you think the poles are on a latch magnet? Mark them on this picture:

