Magnets & Magnetic Fields

Magnetic or not? — predict, then test — front

WORKSHEET

1 · Guess first, test after

BEFORE any magnet is picked up: in the MY GUESS column, circle the little picture you believe — sticks, or doesn't. Then test each thing for real and circle what truly happened in the TEST column. No fair changing a guess!

THE THING	MY GUESS		THE TEST	
 *steel nail*	sticks	doesn't	sticks	doesn't
 *paper clip*	sticks	doesn't	sticks	doesn't
 *soda can (aluminum)*	sticks	doesn't	sticks	doesn't
 *penny (copper)*	sticks	doesn't	sticks	doesn't
 *shiny spoon*	sticks	doesn't	sticks	doesn't
 *wooden block*	sticks	doesn't	sticks	doesn't
 *plastic brick*	sticks	doesn't	sticks	doesn't
 *glass marble*	sticks	doesn't	sticks	doesn't

2 · Count your results

How many things did the magnet **grab**? ☐ How many did it **ignore**? ☐

3 · Think like a scientist

Look at everything the magnet grabbed. **What are all of those things made of?** Tell someone the magnet's secret.

BFSU A-5A

Draw the Invisible Field

You saw the iron dust make it appear — now draw it from memory

WORKSHEET

1 · Draw the field around this magnet

The iron dust showed you the field's secret shape. Draw the **curving lines** all around this magnet — remember: every line **leaves one end and curves back to the other end**. Then trace the word **pole** at each end.



draw the curving lines you saw — then add ONE thing the magnet is pulling in

2 · Where is the pull strongest?

Put a big ★ **star** at each place on your drawing where the iron dust piled up thickest. *Hint: there are two.*

3 · Think like a scientist

The field is still there right now, even with no iron dust to show it. Tell someone: **how do you know it's real if you can't see it?**