

Why Does the Paper
Clip Move?

Why does a paper clip start to move toward a magnet? Draw a diagram to help explain.

My Ideas about the Trash Problem

Our school trash needs to be sorted. Different types of objects need to go to different places. What two things should we separate from the trash? How could we use forces to pick up and move the objects? Use patterns in data as evidence.

Object or material to remove from trash	How can a tool use a force to pick it up?

Recycling Facts

Material	Recycling facts
Aluminum	
Glass	
Paper	
Plastic	
Steel	

Magnets at a Distance

Type of Magnet	Does it attract a paper clip?	Magnetic Force Strength Test (cm)	
Cow magnet	Y N	Touch _____	Release _____
Electromagnet	Y N	Touch _____	Release _____
Horseshoe magnet	Y N	Touch _____	Release _____
Large bar magnet	Y N	Touch _____	Release _____
Ring magnet	Y N	Touch _____	Release _____
Small bar magnet	Y N	Touch _____	Release _____

Magnets at a Distance

1. How are the magnets you tested alike? How are they different?

Alike

Different

2. You moved a magnet close to a stationary magnet. What happened? Include force diagrams in your answer.
3. You need to define solution goals for the trash problem. Investigating forces might help. Ask a testable question about an effect of a force that acts on a piece of trash without touching the trash.