



Pick It Up

Procedure

1. **Collaborate** Work in a small group. Open the bag and spread the objects out on the desk. Record your observations in the chart below.

Object	Attracted to Magnet	Attracted to Nail

2. **Observe** Move a magnet near each object. Observe what happens as the magnet gets close to each object. Record each observation in the chart. Write “yes” if the object was attracted to the magnet. Write “no” if it was not.
3. **Record Data** Move an iron or steel nail near each object. Observe what happens as the nail gets close to each object. Record each observation in your chart.

Name _____ Date _____

4. Predict Now stroke the nail 30 times with one end of the magnet. Be sure to stroke in one direction only. Predict what will happen when the nail gets close to each object. Record your predictions.

5. Record Data Move the stroked nail near each object. Record your observations.

Conclusion

Write the answers to the questions below.

1. Hypothesize Based on your data, form a hypothesis about the kinds of objects that magnets attract.

2. Hypothesize Form a hypothesis to explain what happened to the nail when you stroked it with the magnet.

Design an Experiment Find out if the number of times you stroke a nail affects its magnetic strength. Get five new nails. Make a plan and record your prediction. Test your plan and record all results.

Guided Inquiry