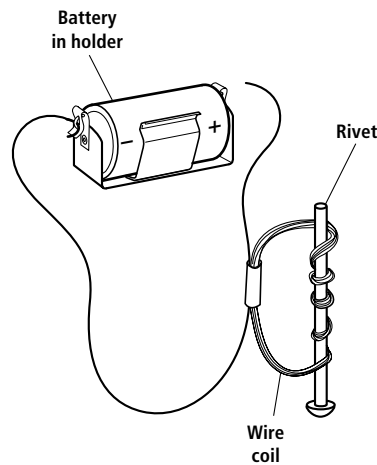


Building an Electromagnet



- 1 Make an electromagnet with your rivet, wire coil, battery, and battery holder.
- 2 Observe how many paper clips you can pick up with your electromagnet.
- 3 Try the experiment three times.
- 4 Then repeat, adding additional coils of wire to the rivet. Record your data in the table.

Note: DO NOT HOLD BOTH WIRES TO THE BATTERY FOR MORE THAN 30 SECONDS OR YOU WILL SHORT THE BATTERY.



Number of Coils of Wire	Number of Paper Clips Picked Up			
	Trial 1	Trial 2	Trial 3	Average
3				
4				
5				
6				

Conclusion

- 5 How does adding more coils of wire around the rivet affect the electromagnet?
