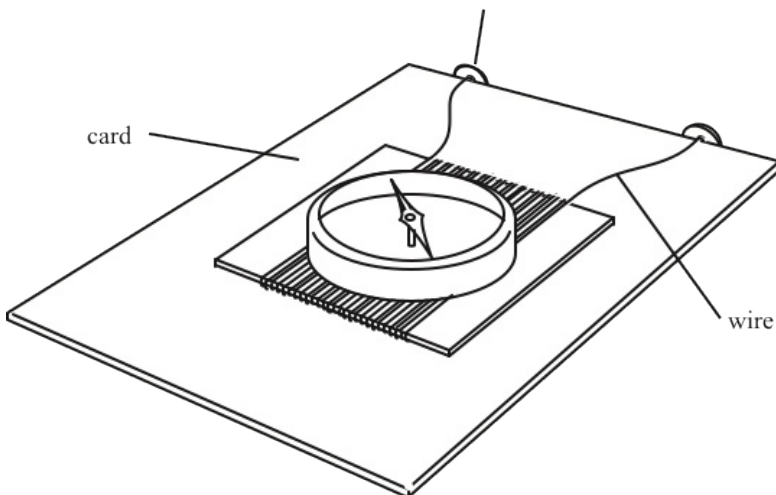


Electromagnets – inquiry activity

Set up equipment like shown in the diagram to investigate how electromagnets work. Complete the questions below using the equipment to help you figure it out.



Questions

- ① What is an electromagnet?
- ② Describe three ways to make an electromagnet weaker.
- ③ What way does the needle on the compass point when there is no current?
- ④ What happens when there is a current in the wire?
- ⑤ How could you change the design of the current detector to detect smaller currents. Explain your answer. (Hint: Think about how to make an electromagnet stronger)