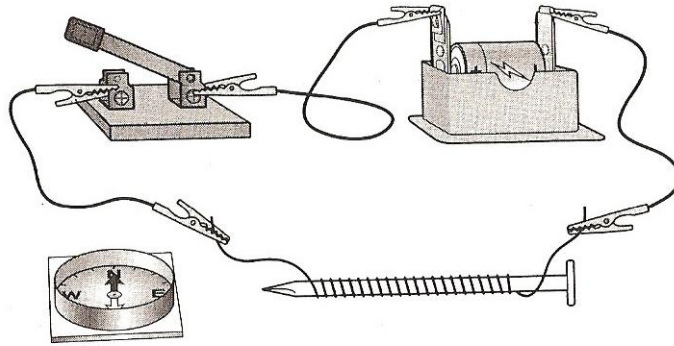


## Electromagnets

GLE 0807.12.1 Investigate the relationship between magnetism and electricity.

GLE 0807.12.2 Design an investigation to change the strength of an electromagnet.

GLE 0807.Inq.3 Synthesize information to determine cause and effect relationships between evidence and explanations.



Predict how each of the following changes would affect the strength of the electromagnet shown above.

1. Adding more coils around the nail
2. Adding another compass near the nail
3. Removing the nail from the coil
4. Adding more batteries in the series circuit
5. Open the switch in the circuit