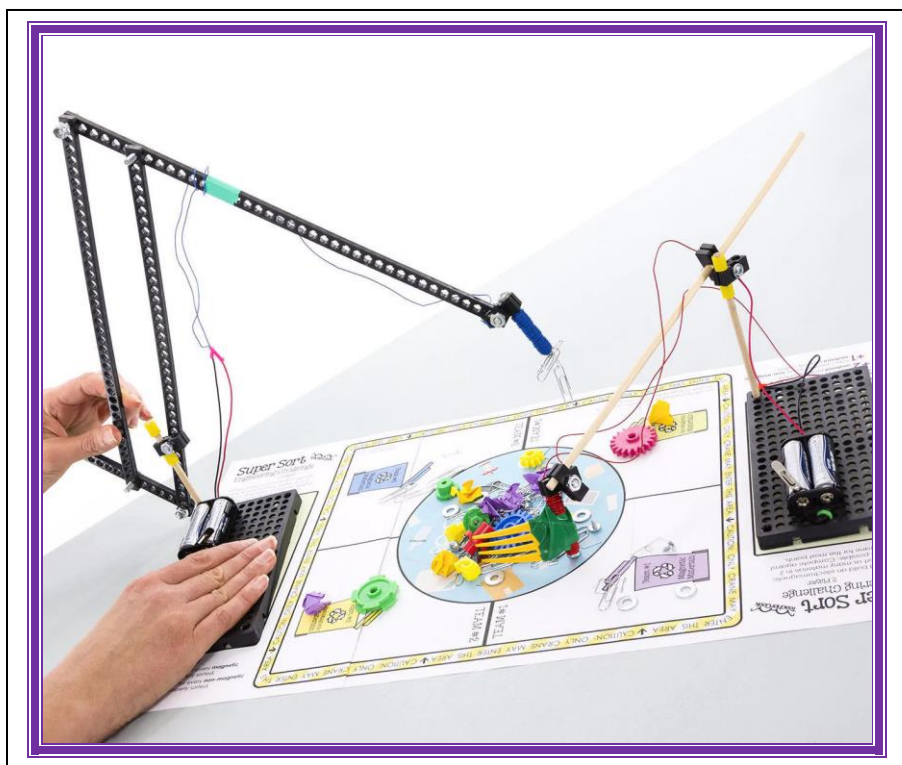


## Questions on electromagnets

1. An electromagnet is a type of magnet whose magnetic field is produced by the flow of \_\_\_\_\_.
2. What happens to the magnetic field when the current is turned off? \_\_\_\_\_
3. In 1820, a Danish physicist discovered that there was a relationship between electricity and magnetism. What was his name? \_\_\_\_\_
4. Powerful electromagnets can be turned on and off with the flick of a \_\_\_\_\_.
5. The strength of an electromagnet can be increased by increasing the number of loops of \_\_\_\_\_  
Around the iron core and by increasing the current or \_\_\_\_\_
6. Does a cellphone use an electromagnet? \_\_\_\_\_
7. Name 5 items that contain electromagnets. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
8. Did Oersted understand why electric current affected a compass needle? \_\_\_\_\_
9. What invention is Michael Faraday credited with? \_\_\_\_\_
10. Which scientist discovered the electromagnetic theory? \_\_\_\_\_
11. Which scientist was the first to satisfactorily demonstrate the existence of [electromagnetic waves](#) by building an apparatus to produce and detect [radio](#) waves? \_\_\_\_\_



Each student in 4A and 4B will assemble an electromagnetic crane in class today.