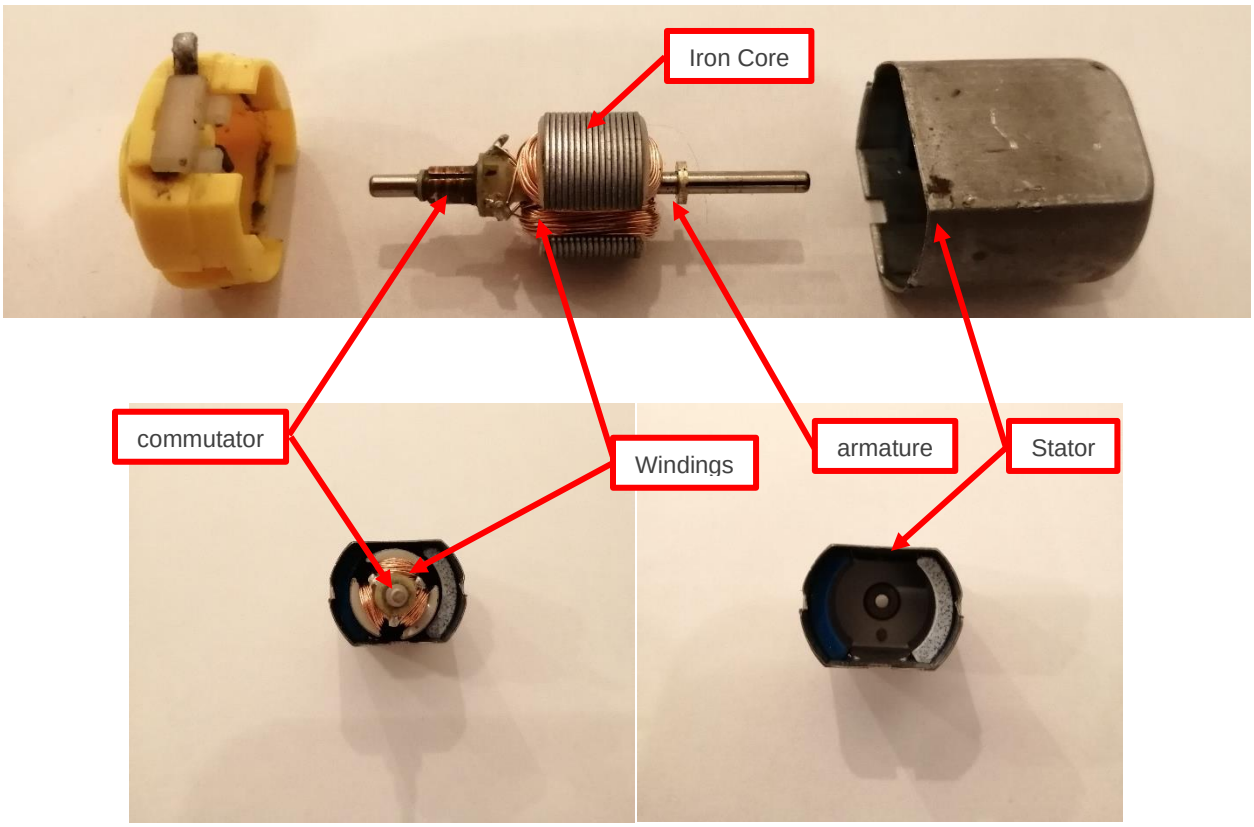
DC MOTORS

Key Revision Facts: GCSE Science

An electrical motors converts direct current electrical energy into mechanical energy.



A simple DC motor has a stationary set of magnets in the **stator** and an **armature** with one or more windings of insulated wire wrapped around a soft iron core that concentrates the magnetic field. The windings of insulated wire are connected to a **commutator** (a rotary electrical switch), that applies an electrical current to the **windings**. The commutator allows each armature coil to be energised in turn, the electromagnet generated by the coil of the armature is repled from stationary magnets in the stator, creating a steady rotating force.