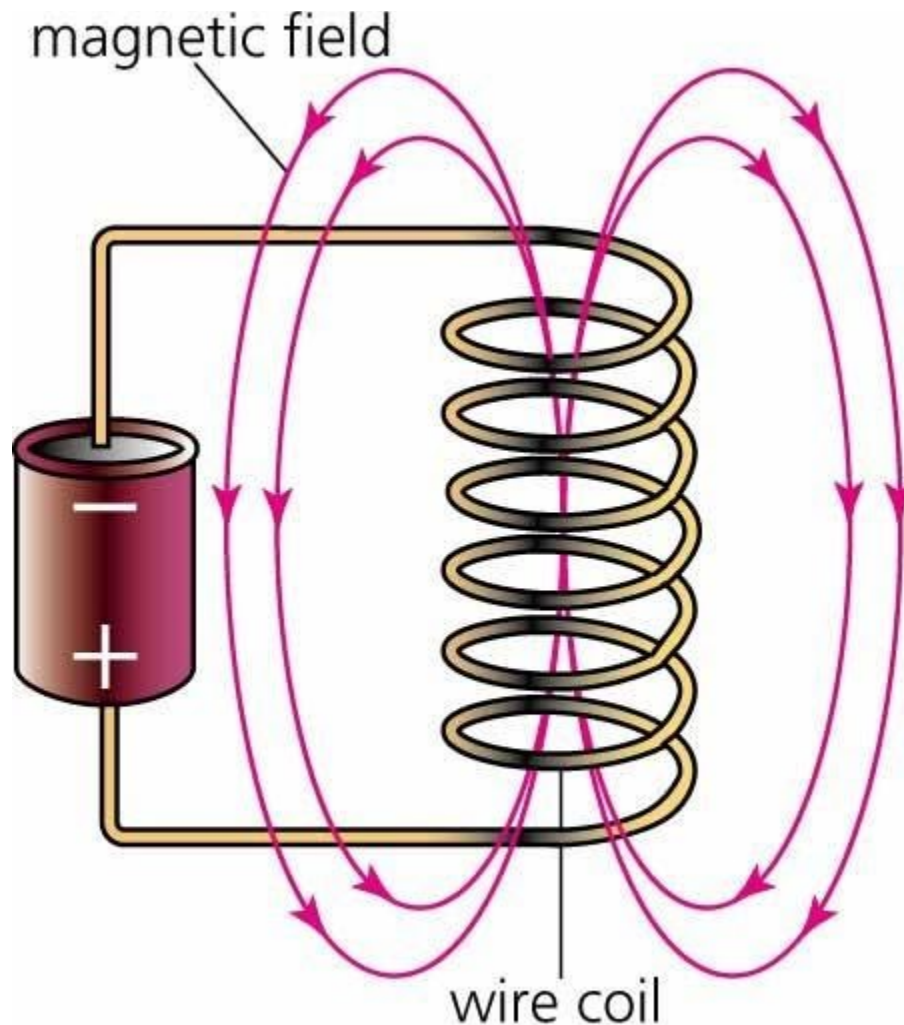


Physics 12 Section 20-8
Ampere's Law

1. Soon after Oersted's discovery of a magnetic field around a current carrying conductor, Andre-Marie Ampere developed a mathematical relationship that allows us to calculate the strength of the B field;

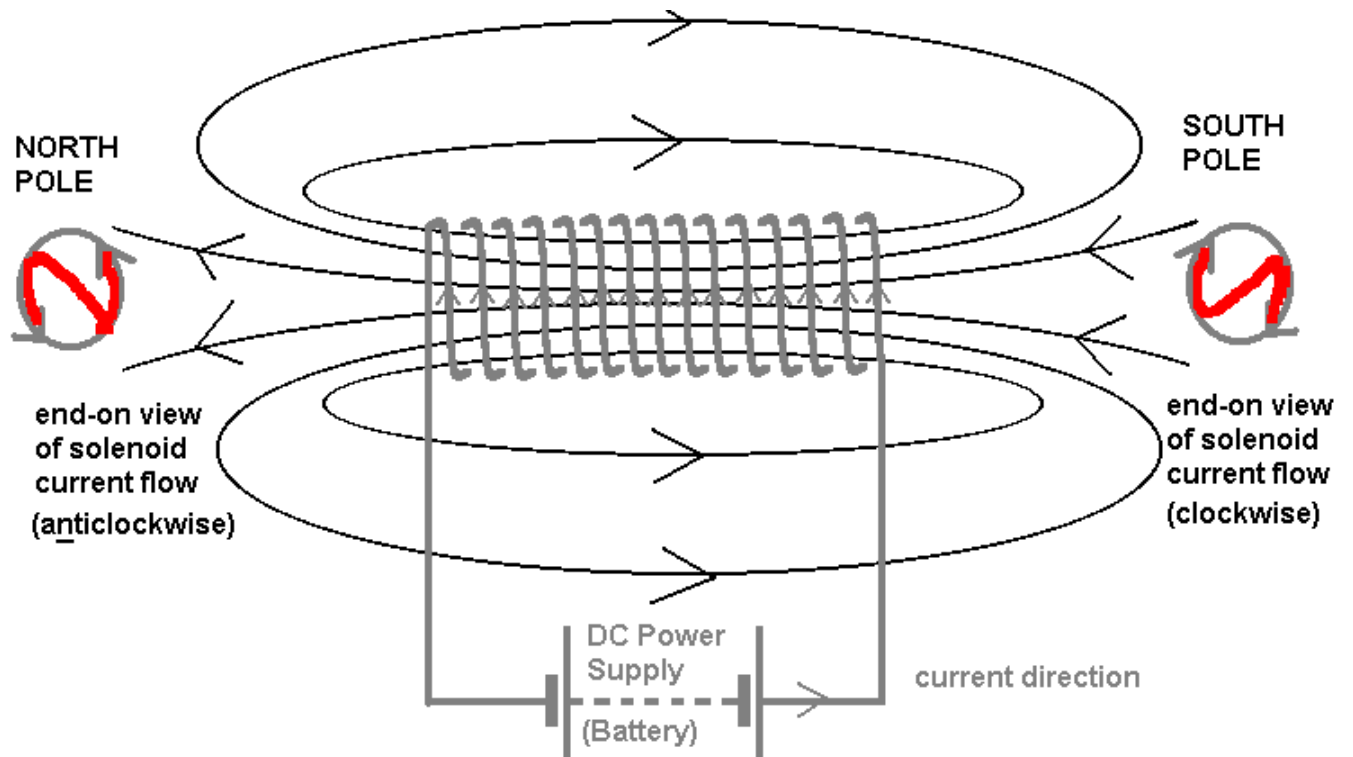
2. We can apply Ampere's Law to a solenoid (coil of wire).



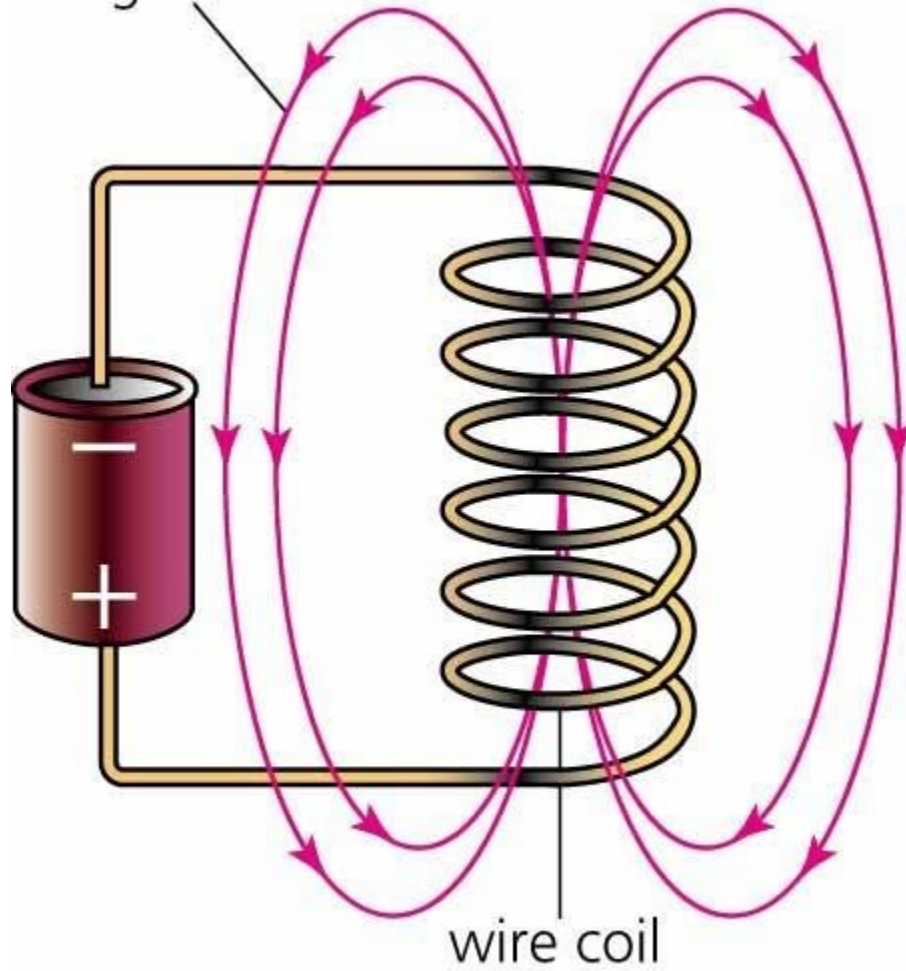
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3. The magnetic field strength can be found by using a variation to Amperes Law.

4. The direction of the magnetic field lines can be found using the right hand rule. Also the North and South poles of the resulting electromagnet can be found.



magnetic field



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