

Science KS3 Assessment Framework

	Beginning Grade 1	Working Towards Grade 2-3	Expected Grade 4-5	Exceeding Grade 6-7	Excelling Grade 8-9
Electromagnets	<p>I can:</p> <p>Label a diagram of a magnet</p> <p>State the main features of an electromagnet.</p> <p>State some uses of electromagnets.</p>	<p>I can:</p> <p>Draw the magnetic field lines around a bar magnet.</p> <p>State one difference between permanent magnets and electromagnets.</p> <p>State where the magnetic field due to a wire or solenoid is strongest.</p> <p>Describe how an electric bell, circuit breaker, or loudspeaker works.</p>	<p>I can:</p> <p>Describe how magnets interact.</p> <p>Draw field lines round a magnet in detail.</p> <p>Describe how to make an electromagnet.</p> <p>Describe how to change the strength of an electromagnet.</p> <p>Describe how the magnetic field strength due to a current carrying wire varies with distance from the wire.</p> <p>Describe some uses of electromagnets.</p>	<p>I can:</p> <p>Explain and give examples how magnets can be used.</p> <p>Predict and test the effect of changes made to an electromagnet.</p> <p>Apply existing knowledge about electromagnets to design a circuit.</p>	<p>I can:</p> <p>Compare magnetic field lines and a magnetic field.</p> <p>Explain how an electromagnet works.</p> <p>Suggest how two wires both carrying currents placed next to each other might behave.</p> <p>Suggest investigations about electromagnets used in different applications.</p>