

## GCSE Checklist – Electromagnetism

Combined Science		Page(s)
Describe the relationships between magnetic poles		289
Describe the pattern of magnetic field lines around a bar magnet.		289
Describe what induced magnetism is		290
Know the different magnetic elements		Notes
Explain how magnets exerts a force on other materials		290
Describe the difference between magnets and magnetic materials		290
Explain how the Earth's magnetic field effects compasses		Notes
Describe the magnetic field around a wire		291
Explain the 'right hand thumb' rule		291
Describe and explain how electromagnets work and their properties		292
HT Explain the motor effect		295
HT Explain and use Flemings 'left hand rule'		297
HT Describe the factors that affect the size of the force on a conductor		296
HT Calculate force using [ <i>force = magnetic flux density x current x length</i> ] ( $F = BIL$ )		296
HT Describe how magnetic fields cause motors to rotate		299