Magnets and electromagnets revision

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| Grade 3/4 | Grade 4/5 | Grade 6 | Grade 7 |
| Draw a diagram to show how you would check which end of a magnet is North | Draw the magnetic field lines around this part of bar magnets, don’t forget to add arrows to show the direction.  S N  S N | | Explain what the motor effect is. Explain how you would identify the direction of movement.  HT |
| What four materials can magnets be made from? | What is a magnetic field? | Draw a diagram to show how you would make an electromagnet | What equation would you use to calculate the force on a wire carrying a current in a magnetic field? |
| What material are permanent magnets made from? | How would you use iron fillings or plotting compasses to find the magnetic field around a bar magnet? | | Draw a diagram of the magnetic field around an electromagnet |
| What is the rule of magnetic attraction and repulsion? | Draw the magnetic field pattern around a wire. | | How would you make an electromagnet more powerful? |