



Magnetism and Electromagnets - quick fire questions

This worksheet is fully supported by a video tutorial; <https://youtu.be/LyflUYL4FvM>

1. What happens when you place like poles on a magnet next to each other?
2. What happens when you place unlike poles on a magnet next to each other?
3. Which materials are magnetic?
4. What is the direction of the magnetic field?
5. How do you change strength of an electromagnet?

Higher Tier Only

6. Define magnetic flux density.
7. What is the equation linking force, magnetic flux density, current and length?
8. What are the units for force?
9. What are the units for magnetic flux density?
10. What are the units for current?
11. What are the units for length?

Physics only

12. What is equation linking voltage at the primary coil, number of turns on the primary coil, voltage at the secondary coil, and number of turns on the secondary coil?
13. What are the units for voltage at the primary coil and voltage at the secondary coil?
14. What is equation linking voltage at the secondary coil, current at the secondary coil, voltage the primary coil, current at the primary coil?