

Chapter 8 Review

1. How do like and unlike magnetic poles interact?
2. What does breaking a magnet in half do?
3. What do we call the region around a magnet where it exerts its magnetic force?
4. How do we map this region?
5. What is a ferromagnetic material? Name three.

6. What is solenoid?

7. What do we call a solenoid with a ferromagnetic core?
8. Where on a magnet is the magnetic effect the strongest? The weakest?
9. In what direction do magnetic fields move? (*Hint: look at the diagrams*)

10. Describe the domain model of magnets.

11. Name two ways you can destroy a magnet's magnetism?

12. What is solar wind?

13. What do scientists believe causes Earth's magnetic field?

14. What are the Van Allen Belts?

15. Where do charged particles from the Sun get the closest to Earth's surface?
16. What do these particles create?

17. What do we call the angle between true north and magnetic north?

18. What shows us that Earth's magnetic field may have reversed direction several times?

19. What is the charge of protons and electrons?

20. What is an electric current?

21. What is the unit of current?

22. What does it (the unit of current) tell us?

23. What do you need for a complete circuit?

24. What is a conductor? Give an example.

25. What is an insulator? Give an example.

26. What is resistance?

27. What are the three circuit symbols shown on p 265?

28. What is a superconductor?

29. What is required for superconductors to work?

30. What is the shape of the magnetic field around a straight current-carrying wire?