

Focused Read: Magnetism

Science Spectrum Book Pages 564-586

Do not write on this paper. Put your answers on SENBP. Write in complete sentences.

1. Where did magnets get their name? What were the first natural magnets?
2. Define the following terms:
permanent magnet,
magnetic force,
magnetically hard,
magnetically soft,
magnetic poles.
3. What is a magnetic field?
4. On the back of this page, answer Section Review questions 1 and 3 on p569.
5. How is the earth like a giant bar magnet? How do compasses work?
6. What is the right – hand rule?
7. What is a solenoid? How does it work?
8. How do electromagnets work?
9. How do electric motors work?
10. What is electromagnetic induction and what does it have to do with Faraday's law?
11. Explain how hydroelectrical power plants use moving water to produce electricity?
12. How do transformers work?
13. How is alternating current different from direct current?
14. On the back of this page, copy and complete the concept map on page 586.