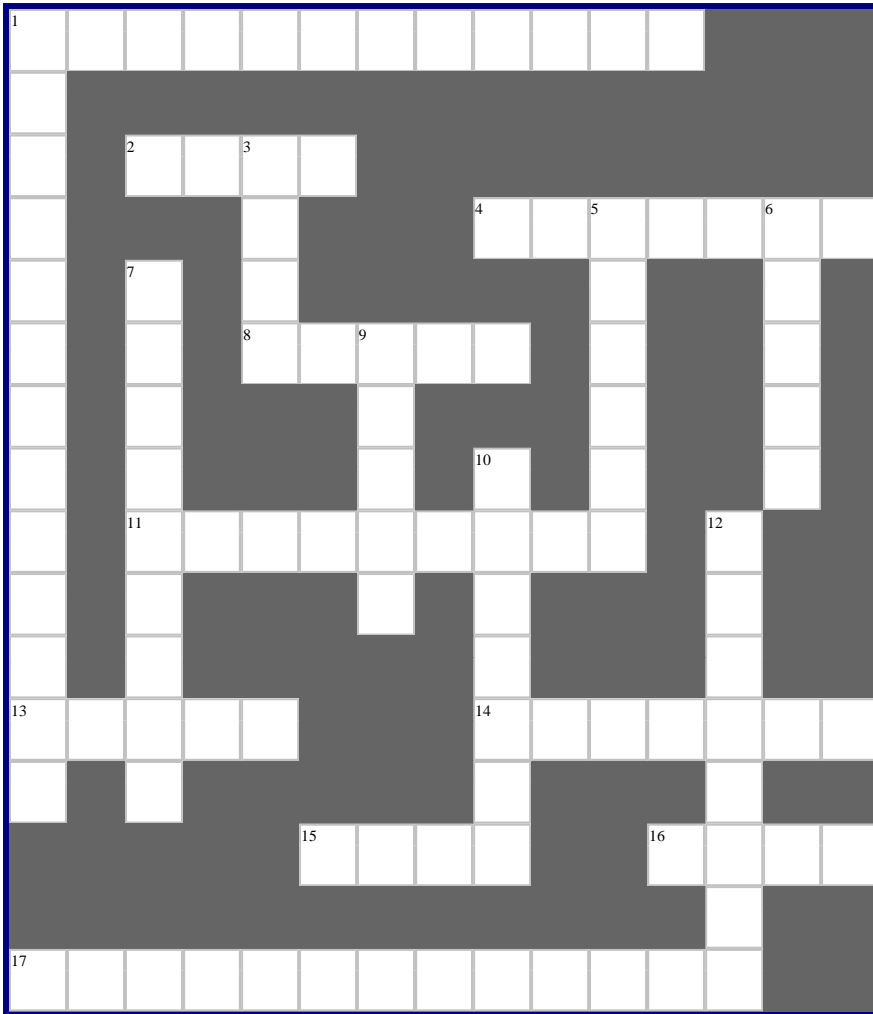


8j - Magnets and electromagnets

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Across

1. Sound generator that uses an electromagnet and a chime (7,4). (12)
2. Wire wound in loops. (4)
4. A device that uses a magnet to show directions north and south. (7)
8. The direction to the earth's Arctic magnetic pole. (5)
11. A magnet that remains indefinitely (for ever). (9)
13. The planet on which we live. (5)
14. Movement of electric charge in a complete circuit. (7)
15. The central part of a transformer or electromagnet, usually made of iron. (4)
16. The end of a magnet where the magnetic field lines are concentrated. (4)
17. The volume surrounding a magnet, often represented by a pattern of lines (8,5). (13)

Down

1. A magnet that can be turned on and off. (13)
3. The most common magnetic element. (4)
5. Something that can separate iron filings from sand. (6)
6. The direction to the earth's Antarctic magnetic pole. (5)
7. This is where old cars and other waste metal ends up. (9)
9. Electrical switch operated by an electromagnet. (5)
10. To use again - environmentally friendly. (7)
12. A coil of wire used as an electromagnet. (8)