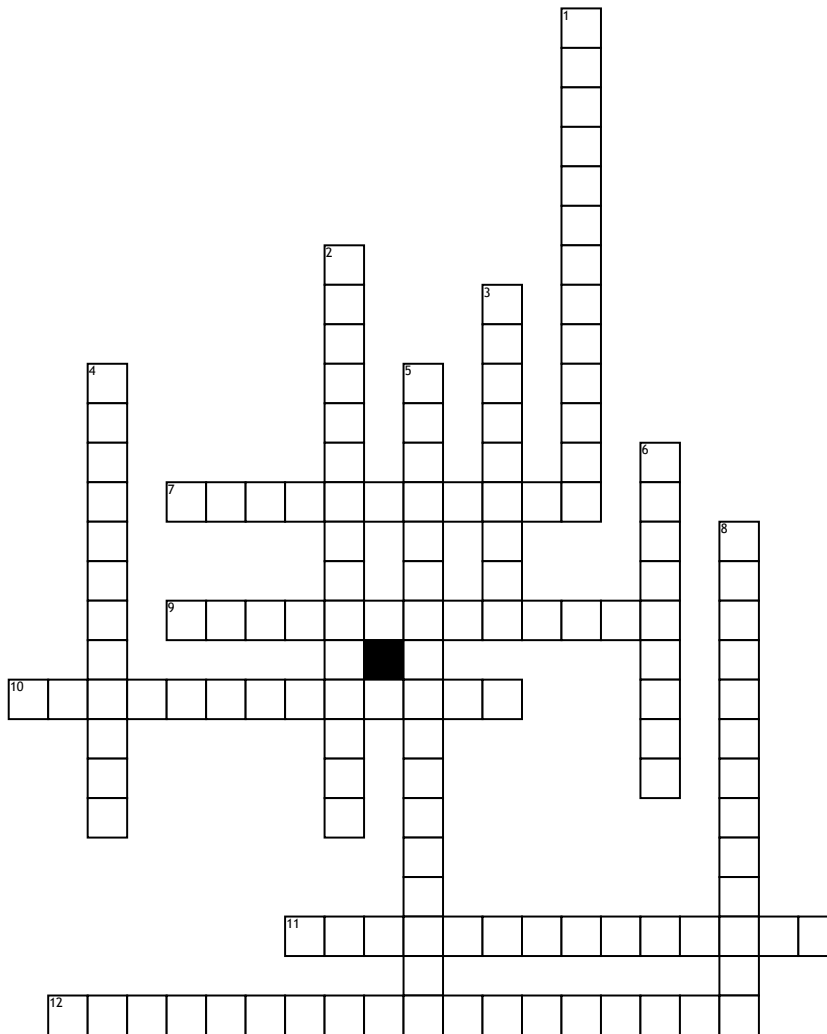


Magnetism



Across

7. a material that does not produce a magnetic field when placed near a magnet
9. a device that converts electrical energy into mechanical energy
10. A coil of wire wound around a magnetic material, such as iron, that produces a magnetic field when current flow through the wire.

11. a colorful, glowing display in the sky caused when particles from the sun strike oxygen and nitrogen atoms in the ionosphere; also called the Northern Lights

12. Like poles repel and unlike poles attract

Down

1. relating to matter with strong magnetic properties
2. southern lights
3. The force of attraction or repulsion of magnetic materials

4. a material that does not stick to a magnet, but can produce a very small magnetic field or slightly change the magnetic field of magnet

5. An area pointed to by a compass based on the Earth's magnetism. This location will change over time.

6. A machine that converts mechanical energy into electrical energy

8. Two doughnut-shaped regions 1,000-25,000 kilometers above Earth that contain electrons and protons traveling at high speed.

Word Bank

Van Allen Belts
Magnetic North Pole
diamagnetic
electromagnet

Generator
ferromagnetic
paramagnetic
aurora borealis

Magnetism
law of magnetic poles
aurora australis
electric motor