

Name _____

Harnessing the Magic: How Magnets Generate Electricity

Short Answer Key

1. Electromagnetic induction involves inducing an electric current in a wire conductor by changing the magnetic field near it.
2. An electric fan uses magnets to generate electricity. It has a rotor with magnets that spin inside coils of wire, inducing an electric current to power the fan.
3. Renewable energy sources like wind turbines, solar panels, and hydroelectric dams rely on magnets to generate electricity.
4. Miniaturization of generators can benefit society by making portable electronic devices more efficient and reducing the environmental impact of energy production.
5. Sustainability is important in the development of materials for magnets and generators to ensure that they have minimal environmental impacts and can be recycled or reused.

