Name _____

Harnessing the Magic: How Magnets Generate Electricity

Multiple Choice Questions

1. What is the key principle behind generating electricity with magnets?

a) Electromagnetism

b) Gravitational force

c) Nuclear fusion

d) Chemical reactions

2. What happens when a magnetic field changes near a wire conductor?

a) The wire becomes magnetic.

b) The wire heats up.

c) An electric current is induced in the wire.

d) The wire changes color.

3. Which of the following is NOT an example of a device that uses magnets to generate electricity?

a) Wind turbine

b) Solar panel

c) Electric fan

d) Hydroelectric dam

4. What is the primary source of motion that drives the generation of electricity in wind turbines?

a) Magnetic fields

b) Solar energy

c) Wind

d) Fossil fuels

5. What is one challenge that scientists and engineers are working to address in the field of electricity generation with magnets?

a) Reducing the use of magnets

b) Increasing the cost of electricity production

c) Improving the efficiency of generators

d) Decreasing the sustainability of materials used