

Name: _____

Date: _____

Build an Electric Generator

Use this worksheet to help you prepare for the What's Going On? on page 142.

1. In this activity, you will build an electric generator using a weaker bar magnet. You will vary the number of coils in the generator to find out which one produces the most current.

a) What is the manipulated variable?

b) What is the responding variable?

2. Then you will build an electric generator using a stronger bar magnet. You will vary the number of coils in the generator to find out which one produces the most current.

a) What is the second manipulated variable?

b) What is the responding variable?

3. Will the number of coils in the wire affect the amount of current produced? If so, how? Write your prediction.

4. Will the strength of the magnet affect the amount of current produced? If so, how? Write your prediction.
