Unit 5K
Generators & Motors
Note-Taking Guide

Main Ideas, Key Points, Questions:

After watching the video segment, write down key points, main ideas, and big questions.

Objective(s):

- Compare and contrast motors and generators, specifically on what they each use to work and how they both use electromagnetic induction.

Notes:

During the video segment, use words, phrases, or drawings to take notes.

Summary:

After watching the video segment, write at least three sentences explaining what you learned. You may ask yourself: “If I was going to explain this to someone else, what would I say?”
Answer the following.

1. How does a motor differ from a generator?

2. How do motors and engines differ?

3. What is created when there is relative motion between a wire and a magnetic field?

4. In a direct current motor, what is the result of the magnetic field acting on the wire?

5. What is necessary in both direct current and induction motors in order to turn the rotors?

6. What is the easiest way to increase the magnetic force acting on the rotor in an induction motor?

7. What turns the turbines in the generators of nuclear, coal, or natural gas power plants?

8. What kind of current do power plants generate?

9. The purpose of transformers is to reduce the __________________________ created at the power plant to a more manageable level at your home.