

➤ 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 how each device works and how both devices 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 do motors and generators differ?

2. How do motors and engines differ?

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

4. What is the result of the magnetic field acting on a wire in a direct current motor?

5. What is needed in both direct current and induction motors to turn the rotor?

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

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

8. What kind of current do power plants generate?

9. The purpose of transformers is to reduce the _____ generated at the power plant to a more manageable level for home usage.