

Build a Radio Speaker Worksheet

Observations

Describe the volume and quality of the sound emitted by the speaker. Compare to the sound quality obtained by different speakers.

Describe modifications or adjustments that were made to try to improve the sound quality.

Post-Lab Questions

1. Write a step-by-step explanation for how the speaker converts electrical signals into sound waves.
2. What was the purpose of placing a hole in the bottom of one of the cups used to make the speaker?
3. Predict how each of the following variables would affect the volume or quality of sound from this simple radio speaker.
 - a. Increasing the number of coils in the wire.
 - b. Increasing the diameter of the coil of wire.
 - c. Using weaker magnets.
 - d. Using larger cups.