

Ellie Gossage

Junior Division Physics

Can You Hear Me Now? The Effect Of Perimeter Boards On Sound Volume

If perimeter boards were placed at different points around the audience, this would increase the volume, making it easier to hear the sound being played or sung. This experiment showed how the positioning of the perimeter boards affects the volume of the sound. This project was undertaken by placing four perimeter boards at different points around an "audience" and playing a consistent tone on an electric keyboard. This tone was recorded on a decibel reader. The results of this project show that placing all four perimeter boards directly behind the audience is the most effective way to increase the volume of the sound. The positioning of 4 perimeter boards around an audience will affect the volume of the sound.