



# Styrofoam Plate Speaker

## Introduction

Students can make a working speaker from a Styrofoam plate, toilet paper roll, wire and magnet which they then connect to an MP3 player to play music. Using everyday materials, they will learn about sound and electromagnetism and visualize the nature of sound waves.

*Styrofoam Plate Speaker* provides an effective introduction to many concepts in physics and illustrates the mechanism behind something that they use everyday. The fundamental principles of electricity and magnetism that govern how all speakers work apply to the Styrofoam plate speakers the students make.