

Project Number

J1808



I have a better understanding of structural shapes after this experiment. Triangles have strong bases, letting the pressure be dispersed over the larger area, so they make good supports on large buildings. Circles and arches have curved tops, allowing pressure to be evenly distribute on them and the ground, so they are found as tunnels and pipes. Squares are sturdy so they can support a lot of weight from the inside, but none from the outside.

Abstract

Summary Statement

Does an engineering formula for beams apply to tunnels?

Help Received

Mother typed some of project, Mr. Larson helped with math, Mrs. Dolan and Mrs. Flatt helped with numerous ideas and helped ready the project for each fair.