



## ***Engineering with Sound Worksheet***

### **Questions:**

1. How is a sound wave created?
2. How do we perceive a sound (has something do with our eardrums)? Take a guess!
3. Can sound travel through a vacuum?

### **True and False**

1. Sound travels in the same way as a light wave. T/F
2. Musical instruments rely on resonance to amplify the notes. T/F
3. Sound travels faster through gas than liquid. T/F
4. Humans can hear all sounds. T/F

Challenge: Step PLAN

Materials you have: cardboard, plastic container, paper, and aluminum foil

Plan out your amplification system in detail. This will help you build it!

A large, empty rounded rectangle with a black border, intended for drawing a detailed plan of an amplification system. The rectangle has rounded corners and occupies the majority of the lower half of the page.