## Physics Workshop

## Speed of Sound

1. Follow the instructions on the Technical Notes and measure the speed of sound in air.
2. Devise a method for measuring the speed of sound in a solid
3. Set the Sound Switches 40 cm apart and obtain the time to travel this distance. Repeat for $60,80 \ldots 140 \mathrm{~cm}$. Now draw a distance/time graph - put time on the $x$ axis. The gradient is the speed of sound

## Apparatus supplied

TSA \& Plugtop
Measuring tape or metre stick
Sound switches

Clapper Board
Graph paper
Ruler
Toffee hammer (shared)

