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
- Set the Sound Switches 40cm apart and obtain the time to travel this distance. Repeat for
 60, 80...140cm. 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)