

Energy - Homework



The instruments of the orchestra can be split up depending on **how** the sound is made in each one.

1. Group the instruments of the orchestra shown in the picture into **three** groups by drawing round them. (3)

2. Explain **why** you have grouped the instruments this way. (refer to **how** the sound is made in your answer)

(3)

3. A scientist measured how fast sound travelled through air and got a result of 350 metres per second. She then measured its speed in water and found it was 1500 metres per second. For her last experiment she sent the sound through steel and then through wood. In steel sound travelled 5000 metres in 1 second and in wood it travelled 4000 metres in 1 second.

- (a) On the back of this homework sheet draw a fully labelled bar chart to show her results. (use a ruler) (3)

- (b) The three states of matter are Solids, Liquids and Gases. Circle the one in which you think sound travels **slowest**. (1)