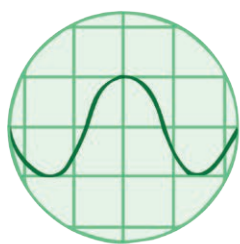
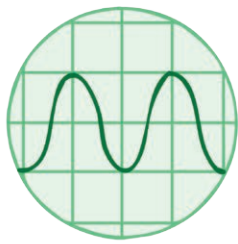


# Sound Exam Style Questions 2

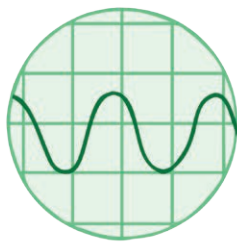
1. The following patterns were taken from an oscilloscope. Images to be shown below



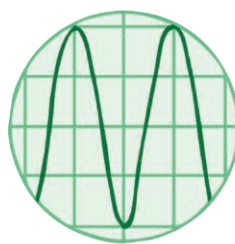
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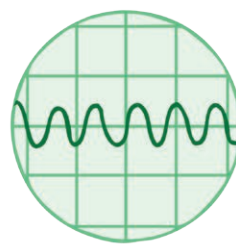
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3



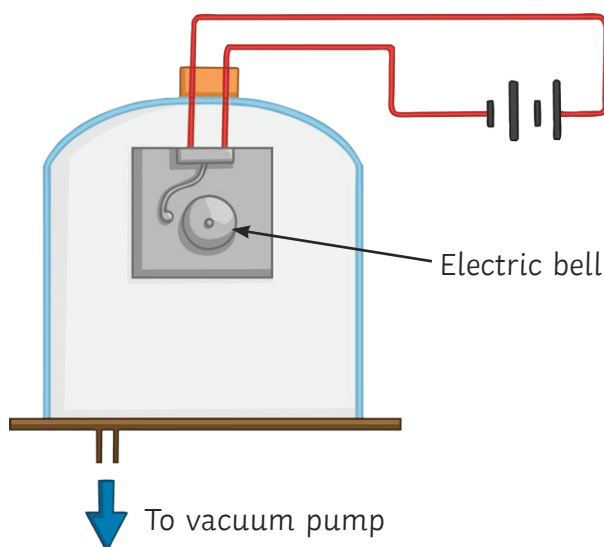
4



5

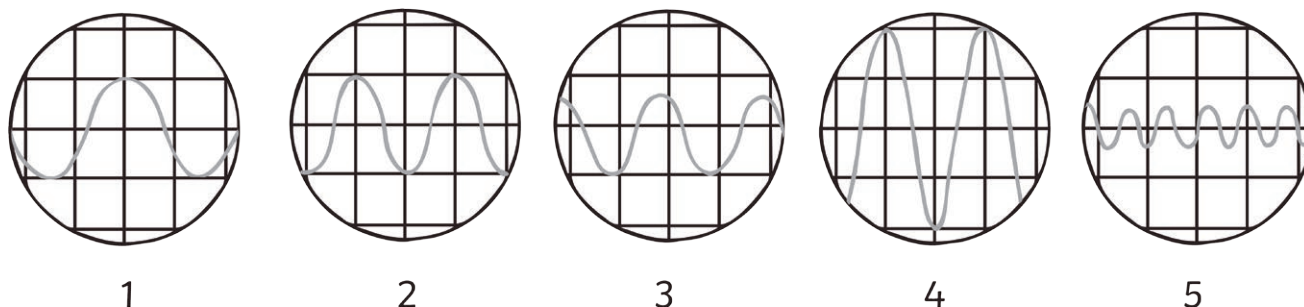
- How does sound 1 differ to sound 2?
- Which reading has the highest pitch?
- Which sound is the loudest?
- Which reading shows the quietest sound?
- Which 2 sounds have the same frequency?
- What happens to the eardrum as the sound gets louder?
- What is the unit of frequency?

2. The following apparatus was set up by a group of pupils and the vacuum pump was switched on. The bell could be heard clearly ringing at first and gradually got quieter until there was no sound made. Explain why.



# Sound Exam Style Questions 2 Answers

1. The following patterns were taken from an oscilloscope. Images to be shown below



- How does sound 1 differ to sound 2?  
**Sound 2 has a greater frequency therefore higher pitch**
- Which reading has the highest pitch? **Sound 5**
- Which sound is the loudest? **Sound 4**
- Which reading shows the quietest sound? **Sound 5**
- Which 2 sounds have the same frequency? **2 and 4**
- What happens to the eardrum as the sound gets louder?  
**It vibrates with a greater amplitude**
- What is the unit of frequency? **Hertz/ Hz**

2. The following apparatus was set up by a group of pupils and the vacuum pump was switched on. The bell could be heard clearly ringing at first and gradually got quieter until there was no sound made. Explain why.

**At the start of the experiment there are air particles inside the bell jar that can vibrate, the vacuum pump slowly removes the air particles until there is nothing left to vibrate and no sound can be heard.**

