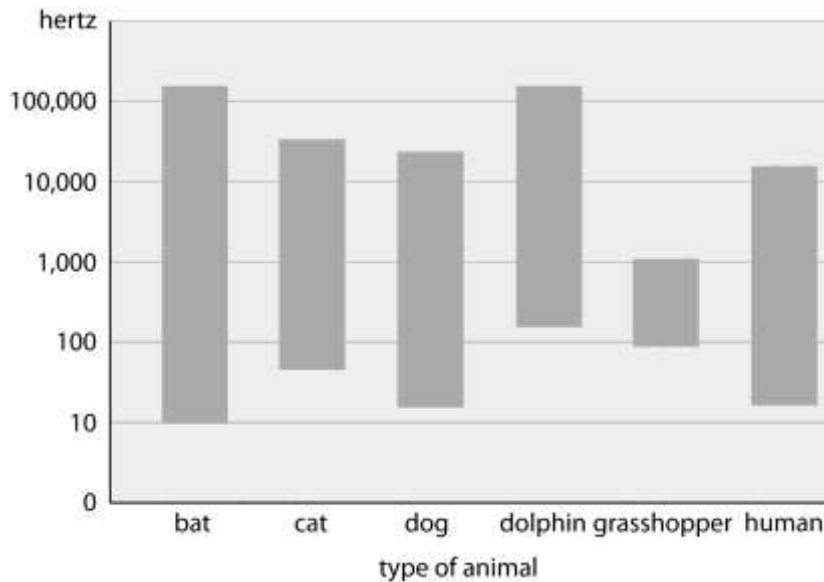


Ultrasonic sounds

Task 1: The range of sound (Levels 5–7)



ultrasound • frequency • thresholds • pitch • 20 000 • dogs • range

Use words from the box above to complete this passage:

Humans can hear sounds in the _____ of 20 Hz up to _____

Hz. These numbers refer to the _____ of the sound. Another way of

describing this would be to talk about high and low _____.

The upper and lower limits of the frequencies that we can hear are called the _____.

Some animals such as _____ can hear sounds above the limit of human hearing.

Sound with a frequency above our threshold is called _____.

Task 2: Ultrasound and its uses (Levels 6–7)

Choose one of the uses of ultrasound below and use the internet or books to find out more about it. Make some notes and then present your information as an educational poster.

The aim is to present scientific information in an attractive and easy to understand form.

- Ultrasound is used to clean teeth and jewellery
- Ultrasound is used to look inside our bodies
- Engineers use ultrasound to inspect pipes
- Bats use ultrasound to help them hunt for food

Task 3: Advantages of ultrasound (Level 7)

Look at the **HSW** box on page 143 of your Pupil Book and read the sections on dentistry and checking underground pipes.

Write a short explanation about:

- a** Why ultrasound is an improvement on more traditional methods of cleaning delicate machinery and human teeth.

.....

.....

.....

.....

.....

- b** Why ultrasound is so useful for checking underground pipes.

.....

.....

.....

.....

.....