Waves

1. Sound

CONCEPT 2

TEST YOURSELF

HEARING SOUNDS AND AUDITORY RANGES



- Q1 What is the **frequency** of sound?
- Q2 A dog whistle produces a sound of 25 000 Hz when it is blown. Why will a dog hear the whistle when her owner blows it but the owner will not?



- Q3 Where in the ear are
 - (a) electrical signals transmitted to the brain?
 - (b) sound vibrations amplified?
 - (c) vibrations first detected?
- Q4 Some animals like the Fennec Fox in the image have large ear lobes in the shape of a funnel.
 - Explain why having large ear lobes is useful for the animal.





- Q5 Who is more likely to be at risk of having problems with poor hearing?
- Q6 We often to refer to high frequencies in kHz rather than Hz.

How many hertz are in 20 kHz?

Q7 Why should you not be impressed with the head phones in this advert.?

