

# Waves

## 1. Sound

### CONCEPT 4

### TEST YOURSELF

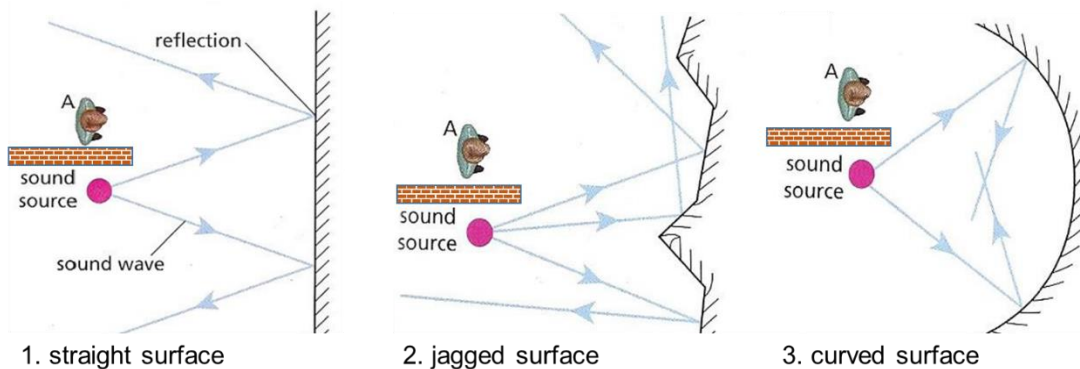
## REFLECTION AND ABSORPTION OF SOUND

### KNOW

- Q1 If a material is good at absorbing sound, what could it be made from?
- Q2 Why would you hear a strong echo in a cathedral which had high walls and a roof made from flat stone bricks?
- Q3 Suggest where it might be useful to absorb sound waves.

### APPLY

- Q4 Look at the three diagrams below. They show a person standing at position A. They cannot hear the sound from the sound source because of a soundproof barrier. They will hear the sound only when it reflects off the surface as shown in the diagrams.



Imagine you are standing at position A in each of the diagrams. Compared to situation 1 with a straight surface, how would the sound you hear compare in situation 2 and 3?

### EXTEND

- Q5 The diagram shows a cross section of a double-glazing window.

How can double glazing be used to soundproof a home?

