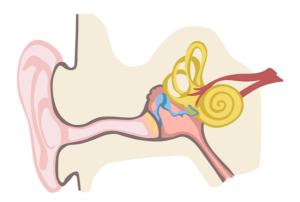
## Lesson 3: How can we find out which material makes the best sound insulator?

## Quick quiz

- 1. Which mediums can sound travel through?
  - a. Solids
  - b. Liquids
  - c. Gases
  - d. All three
- 2. Label the eardrum on this diagram:



Today, you're going to be investigating how to change or even stop sound. Why might you want to do that?

## You will need:

- A box eg a shoebox
- A jumper, towel or blanket
- A device to play music eg a phone
- Some wrapping paper
- Other material perhaps from your recycling bin that you can wrap around the box

## Method:

- Choose a song to play on your device. It will need to be quite a long song!
- Put the device into the box and listen
- Wrap the phone with the different materials. Which one stops the most sound?
   This is the best insulator
- Then experiment with using different combinations maybe a jumper and some wrapping paper?

	will be the best insulator. I think t	his 
Results Complete the table below to	show your results:	
Material	What happened?	
Conclusion  Which material was the best	insulator? (stopped the most sound)	
From my results, I can con	clude that	
	this is	

Prediction: