



Deliberate and specific retrieval of expected prior knowledge (be specific)

Retrieval should occur regularly throughout the learning journey:

KS3:

Impact of exercise on the body
Know how drugs can be harmful
Looking at relationship between diet and exercise

Academic transformation (be specific)

Your core curriculum must do all of the following:

- Structure of the respiratory system
- Lung dissection demo (optional)
- Gas exchange in the lungs & issues with the respiratory system
- Mechanisms of breathing – bell jar demo
- Investigating lung capacity
- Investigating how exercise effects breathing
- Plotting and interpreting of graphical data

Personal transformation (2 or 3)

Effects of asthma and smoking/pollutants on the respiratory system (COPD) if time permits

Organ donation and lung transplants

Can I Learning Questions

Can I describe what happens when we breathe in?
Can I describe how the lungs are adapted for gas exchange?
Can I carry out a practical to measure my lung capacity?
Can I carry out an investigation into breathing rate?

Literacy

Key vocabulary

Trachea, lungs, alveoli, bronchi, bronchioles, diaphragm, capillaries, diffusion

- ***Disciplinary reading***

Misconceptions

Respiration is the same as breathing
There is no oxygen in the air you breathe out
The air you breathe out is just carbon dioxide