



5th & 6th Class  
Science



## Respiratory System

Múinteoir Clíona's science lesson today was about the respiratory system. The respiratory system is the group of the tissues and organs that work together to allow us to breathe.

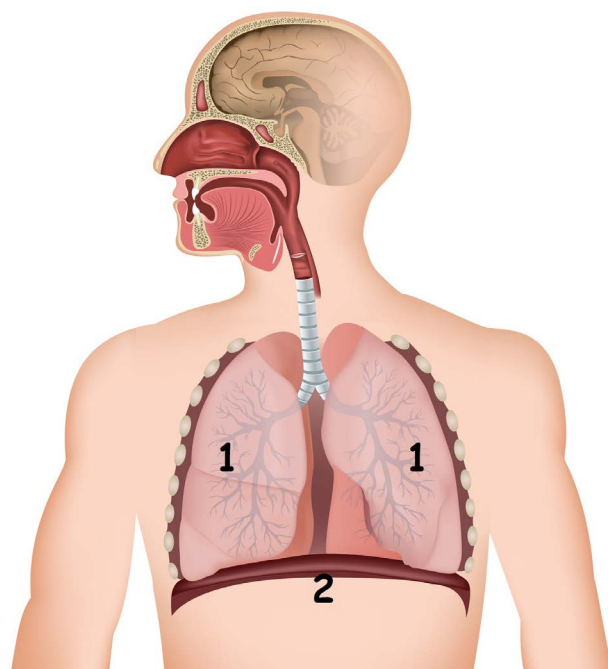
**01** Names the part of the respiratory system labelled 1 and 2 in this diagram.

01 \_\_\_\_\_

\_\_\_\_\_

02 \_\_\_\_\_

\_\_\_\_\_





# Respiratory System

**02** Fill the in blanks with the correct gas.

i) We breathe in \_\_\_\_\_

ii) We breathe out \_\_\_\_\_

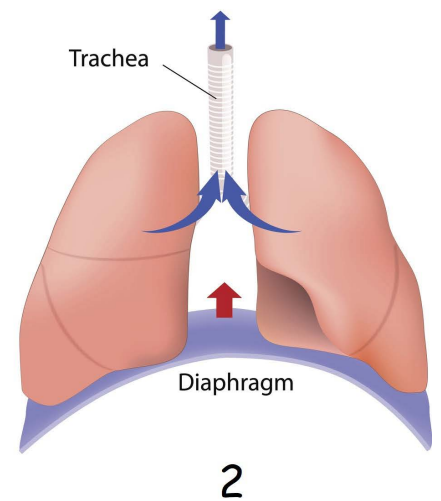
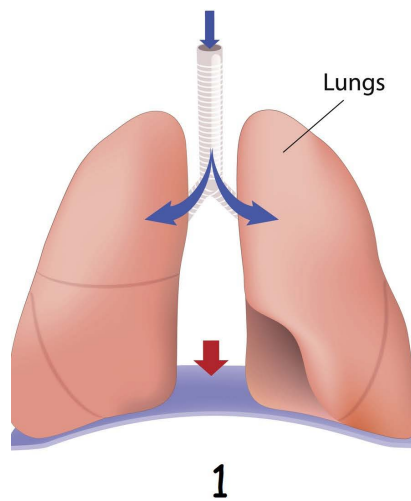
**03** Which diagram is inhale and which is exhale?

01 \_\_\_\_\_

\_\_\_\_\_

02 \_\_\_\_\_

\_\_\_\_\_





# How to Make a Model Lung

**What you need:** clear plastic bottle, two balloons, scissors, tape

## Method:



**01** Very carefully cut the bottom off the bottle. Get a parent's help with this bit, it can be tricky.



**02** Push one balloon into the neck of the bottle and fold the neck of the balloon around the neck of the bottle. This is your lung.



**03** Get the second balloon and snip the neck off it.

**04** Stretch the balloon over the open bottom end of the bottle. Secure it with a bit of tape. This is your diaphragm.



**05** To get your lung model breathing start by gently pulling down on the centre of the diaphragm. What happens to the balloon inside the bottle? As the diaphragm moves down your lungs should fill with air. This is what happens when we inhale.

**06** Now let go of the diaphragm and push it up into the bottle gently. What happens to the balloon? The lung deflates as the diaphragm moves up. This is what happens when we exhale.



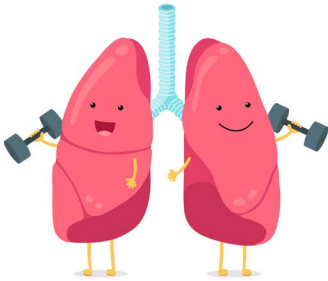
See who has the largest lung capacity in your house.

People who have a large lung capacity can send oxygen around their body faster. You can increase your lung capacity by doing regular exercise.



# Fun Lung Facts

- An average person breathes in over 9,000 litres of air every day.
- The lungs are the only organ in your body that can float on water. Each of your lungs contains about 300 million balloon-like structures called alveoli, which replace the carbon-dioxide in your blood with oxygen. When these structures are filled with air, the lungs become the only organs in the human body that can float.
- What do lungs and a tennis court have in common? Their size! It's true. If the lungs were opened flat, they would be so big that they would cover the size of a tennis court.
- We breathe out over a cup of water every day.
- Lungs aren't the same size. The left lung is slightly smaller, allowing room for your heart which is on the left side too.
- The World Record for a person holding their breath is 24minutes and 3 seconds. (do not try it at home!)
- Horses can only breathe through their noses and not through their mouth.



**Answers:** 1) 1=lungs 2 = diaphragm 2) 1) Oxygen !! Carbon Dioxide 3) 1=Inhale 2=Exhale