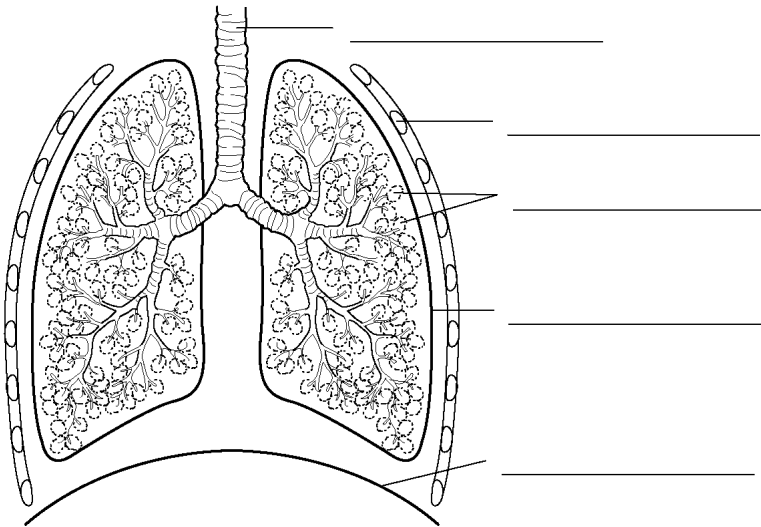


Breathing and circulation

① Label the diagram of the respiratory system.



- air sacs
 - diaphragm
 - lung
 - rib
 - Trachea

② Fill in the missing words in these sentences, using the words in the box.

You may need to use some words more than once.

blood vessels carbon dioxide exhaling heart inhaling lungs oxygen respiration

Breathing **in** is called _____ . Air goes into the _____ .

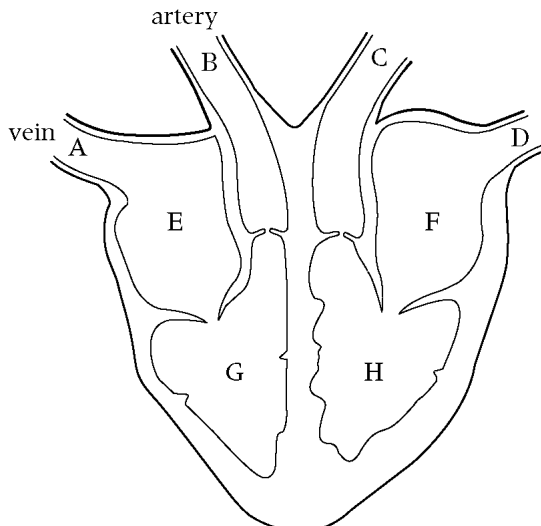
A gas from the air called _____ goes into the blood. A waste gas dissolved in the blood, called _____ , goes into the lungs.

Breathing **out** is called _____ . When we do this, the waste gas goes into the air. _____ gas, from the air, is needed by the cells in the body for _____ . The gas is carried by the blood. The _____ is an organ that pumps the blood.

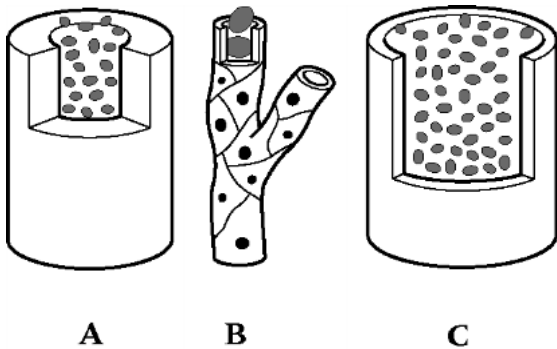
The blood travels around the body in tubes called _____ .

Blood and circulation

- ③ The diagram of the heart has a letter next to each major blood vessel and in each chamber.
- Arrange the letters to show the direction that the blood travels through the heart, starting from when blood first enters the heart.
 - The artery that takes blood to the lungs is called the pulmonary artery. Which letter represents the pulmonary artery?
 - Which letters show parts that carry blood with a lot of oxygen?
 - Which letters show parts that carry blood without very much oxygen?



- ④ Look at these pictures of blood vessels.



- Which one shows a capillary?
- What is the name of the liquid that leaks out of capillaries and surrounds the cells?
- Blood consists of cells and a liquid. What is the name of this liquid?
- Name one substance that the liquid in part c carries.
- Name one substance that a red blood cell carries.