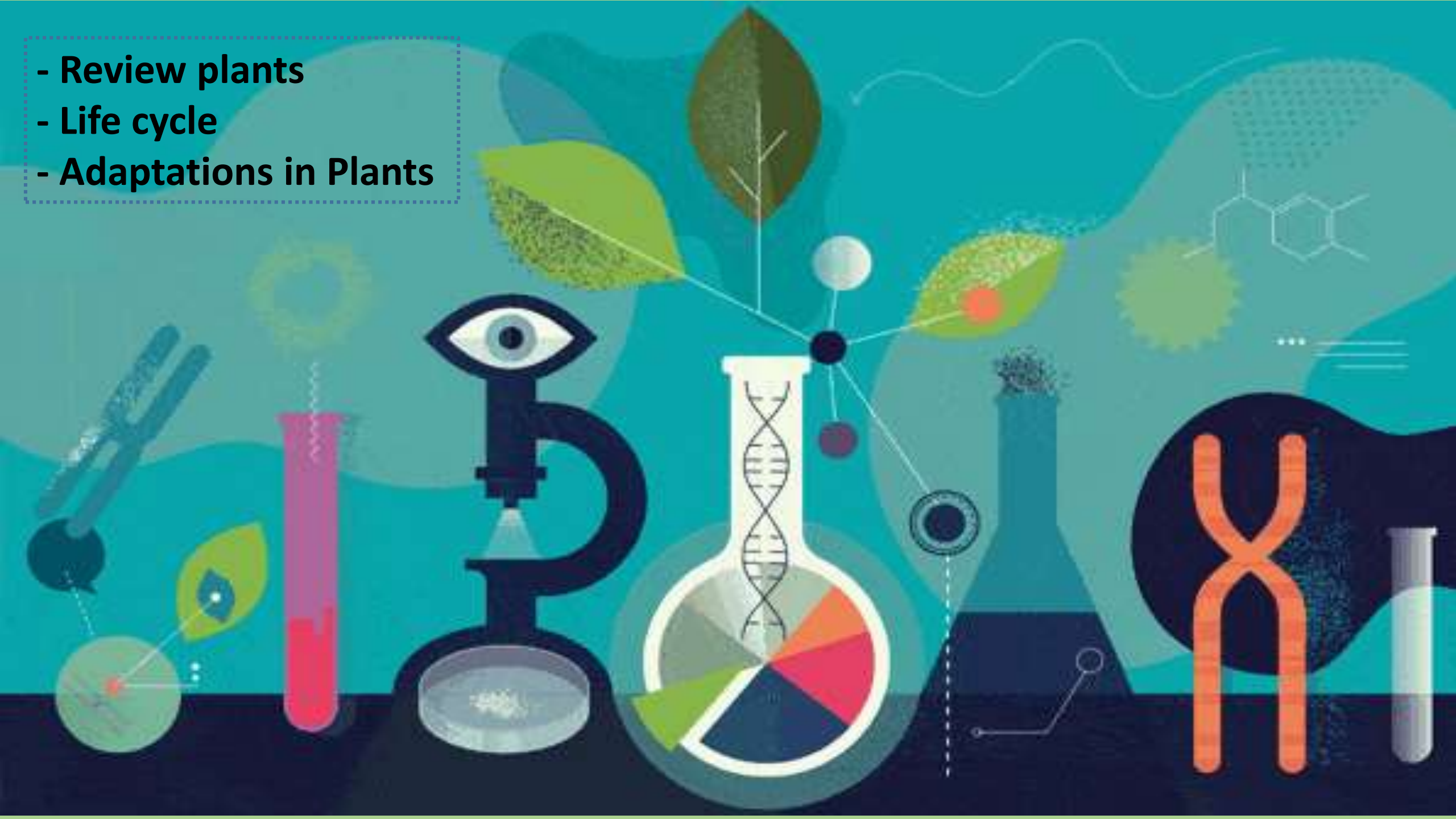
# Today:

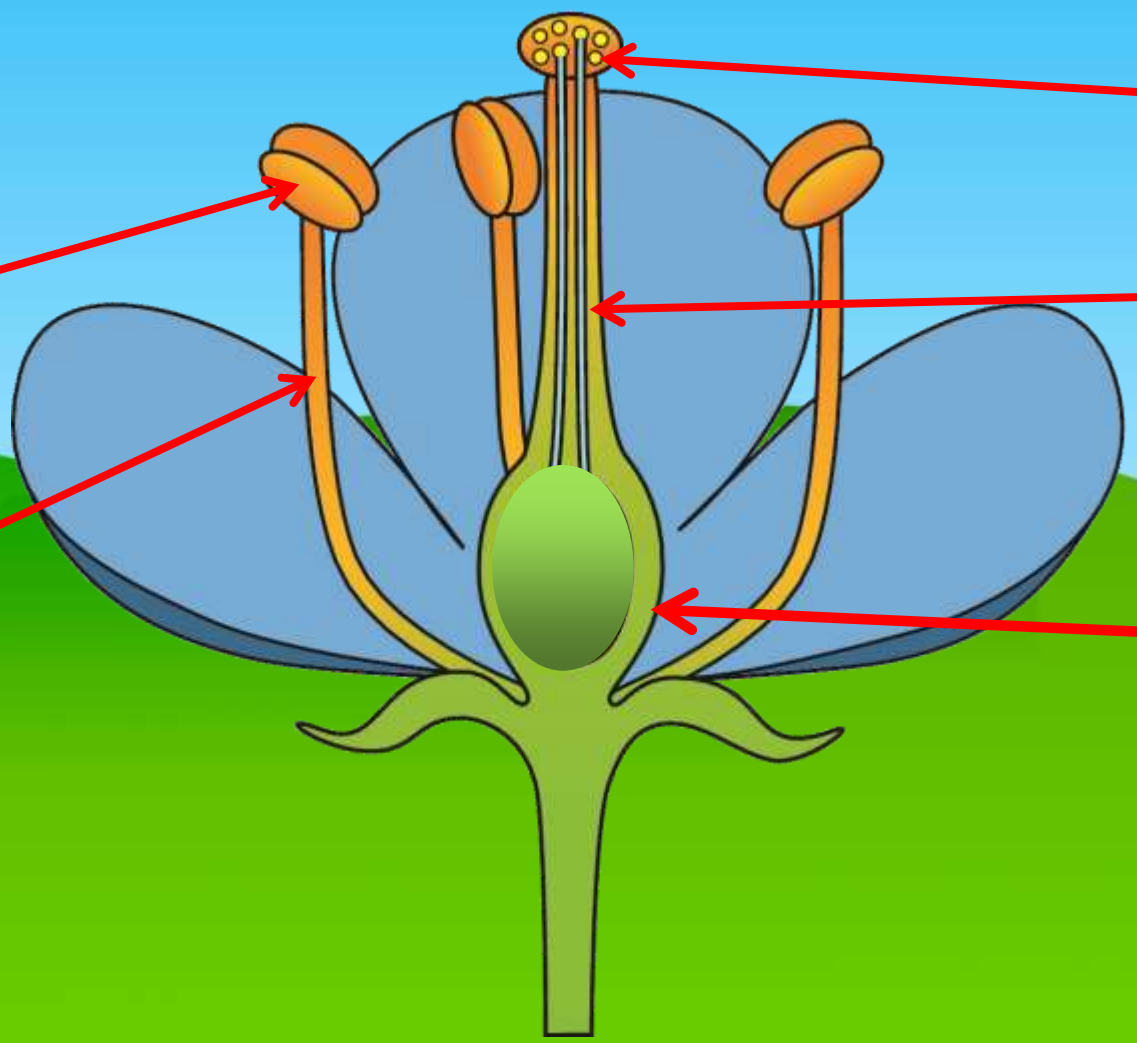
**-Plants**
**-Plant adaptations**

**- Review the heart**
**- Review pulse rate**

- Review plants
- Life cycle
- Adaptations in Plants



# Parts of a Plant



Carpel

Stamen

Stigma

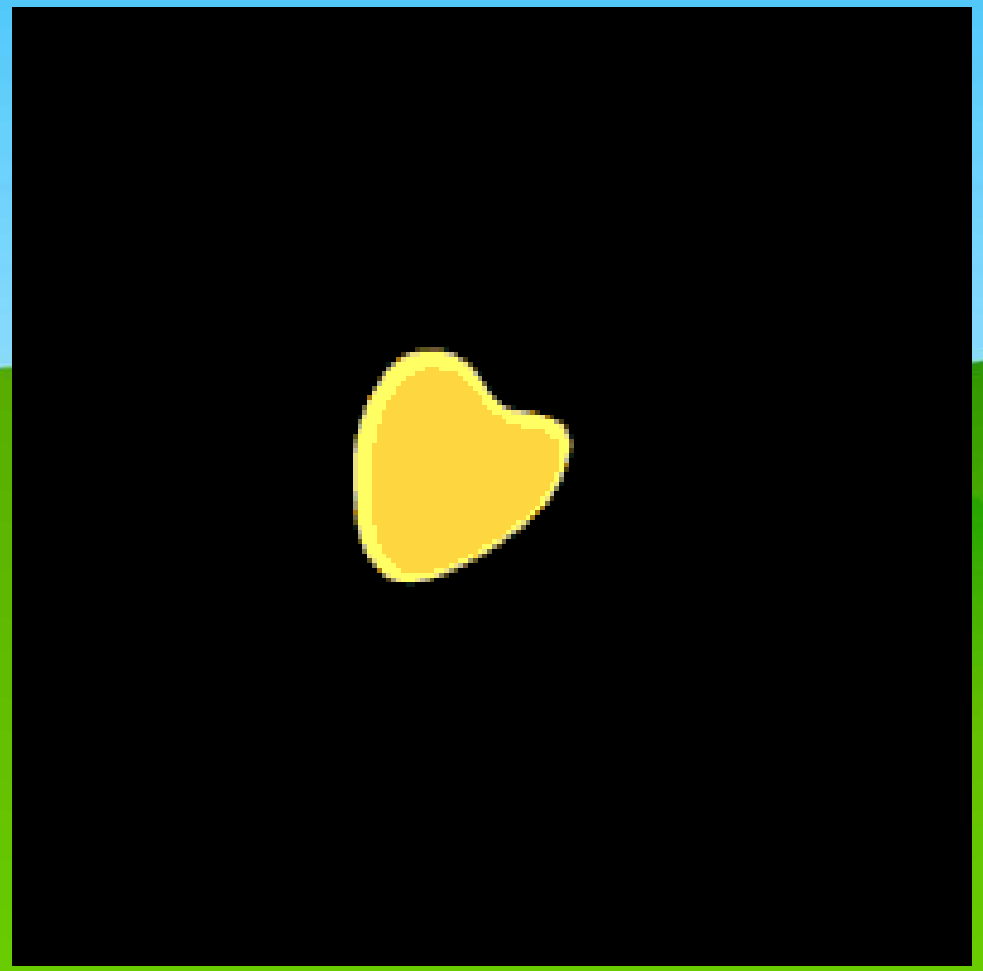
Anther

Style

Filament

Ovary

# The Lifecycle of a Plant



germination

↓

growth

↓

pollination

↓

fertilisation

↓

new seed and seed dispersal

# Germination

## When a seed starts to grow.

### Seeds Need Three Things for Germination

1. water
2. oxygen
3. correct temperature

### Stages of Germination

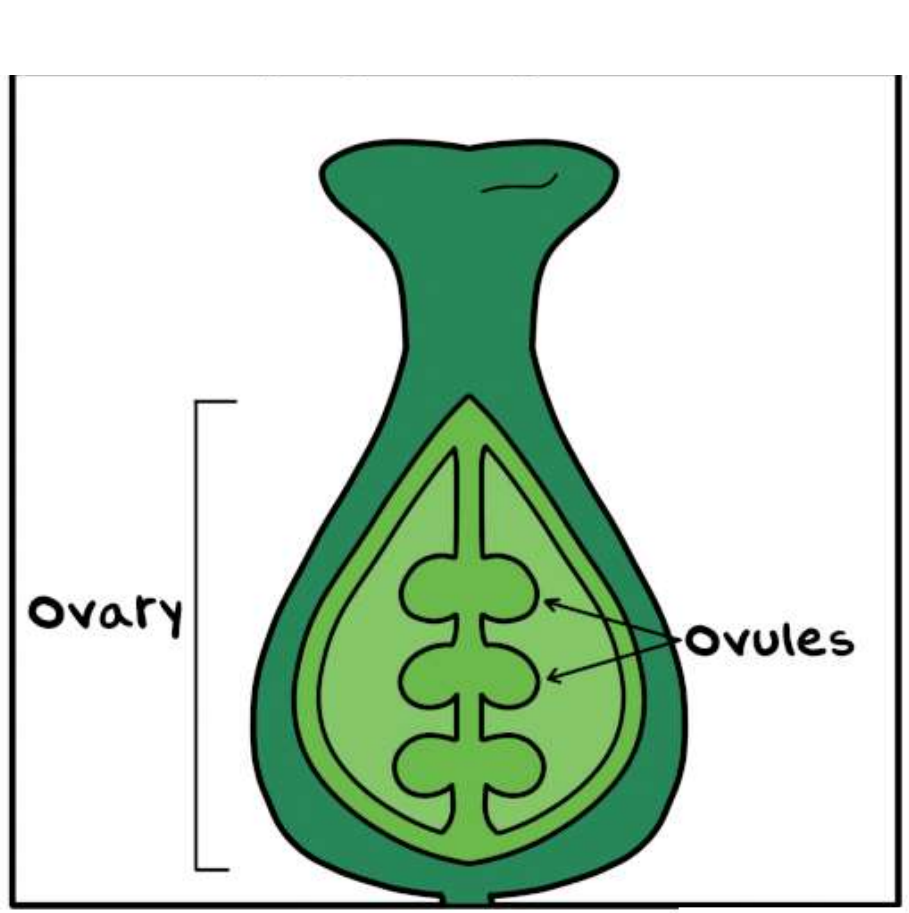
1. a root
2. a shoot
3. a seedling

# Pollination

**When pollen moves from an anther to stigma.**

# Fertilisation

After pollination a pollen tube grows to the ovary.




When pollen meets an ovule (egg) fertilisation has finished.

**Then we get a new seed and fruit.**

# Seed Dispersal

**Seeds have to move away from their parent plant.**

How can seeds move?

1. wind

2. water

3. explosion

4. animals

# Why do seeds need to be dispersed away from their parent plant?

The parent tree will take all the water, nutrients, space and light.

The seed needs water to germinate and nutrients and light to be healthy.

Yay! . . .

# ADAPTATIONS IN PLANTS

# *Adaptation*

**Something *different* that helps a living thing survive.**

**What has it got and why?**

**What have these animals got that is special?**

# Plants have *adaptations.*

**What helps Groot to survive?**

Very strong

He can see!!!

He can talk

He can change body size!!!!

# Venus fly trap

From the U.S.A wetlands.


**Adaptation**

**They have a 'mouth' to trap insects.**

**This helps the plant get important nutrients.**

# Cactus

Live in the desert (very hot and dry)

**Adaptations**

**They can store water in the stems.**

**They have sharp spines instead of leaves for protection.**

# In the rainforest

Vines grow up trees to get to light.

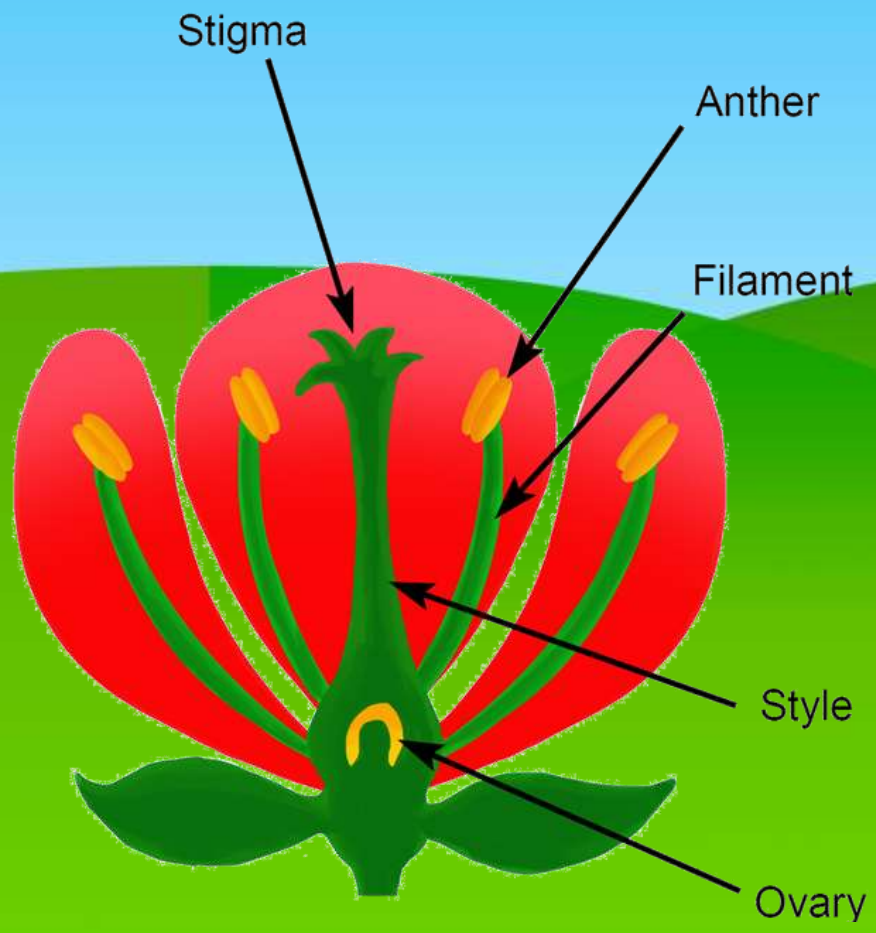
Bigger leaves to take sunlight in.

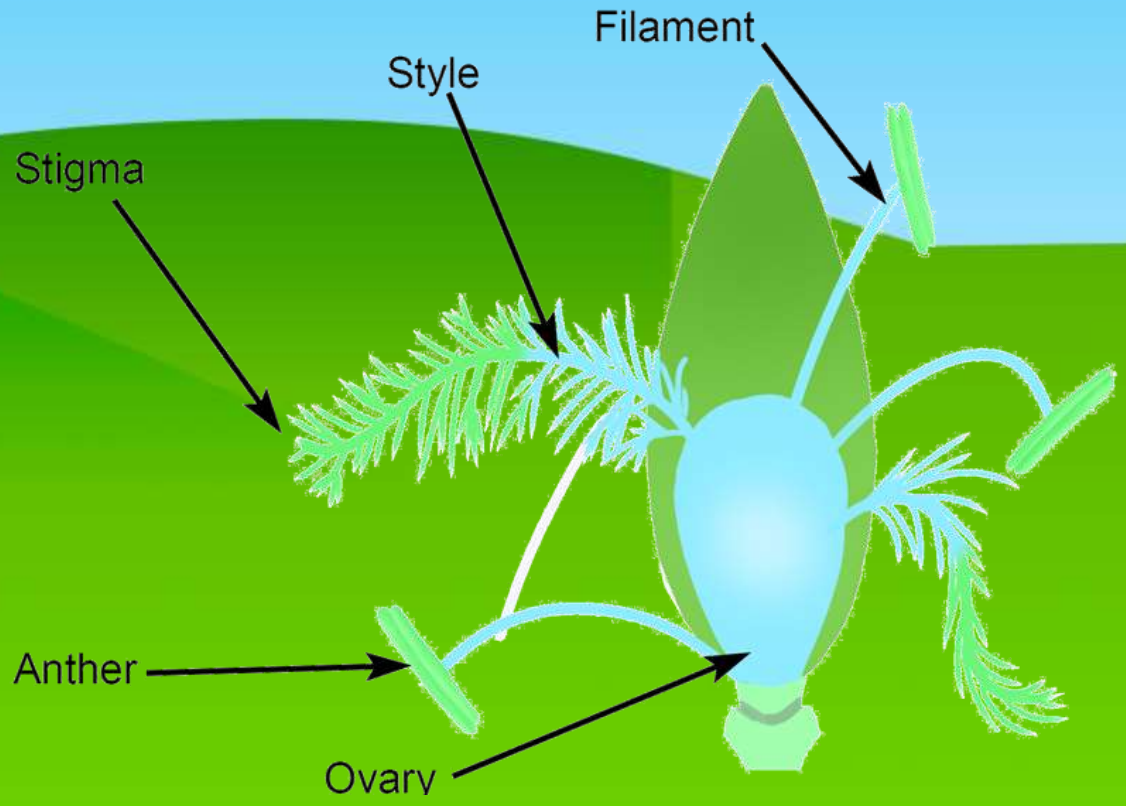

Some trees grow faster to get to the light.

Lips??

# Wind and Insect Pollinated Plants

They have adaptations that help them be pollinated.



# Design / draw your own plant.

## What is it called?

## Where does it live?

## What are the plant's adaptations?

# Design a Plant

Design and draw a new plant. Describe the plant's adaptations.


The habitat where my plant lives:

How my plant is adapted to live here:

1._____

2._____

3._____

_____

_

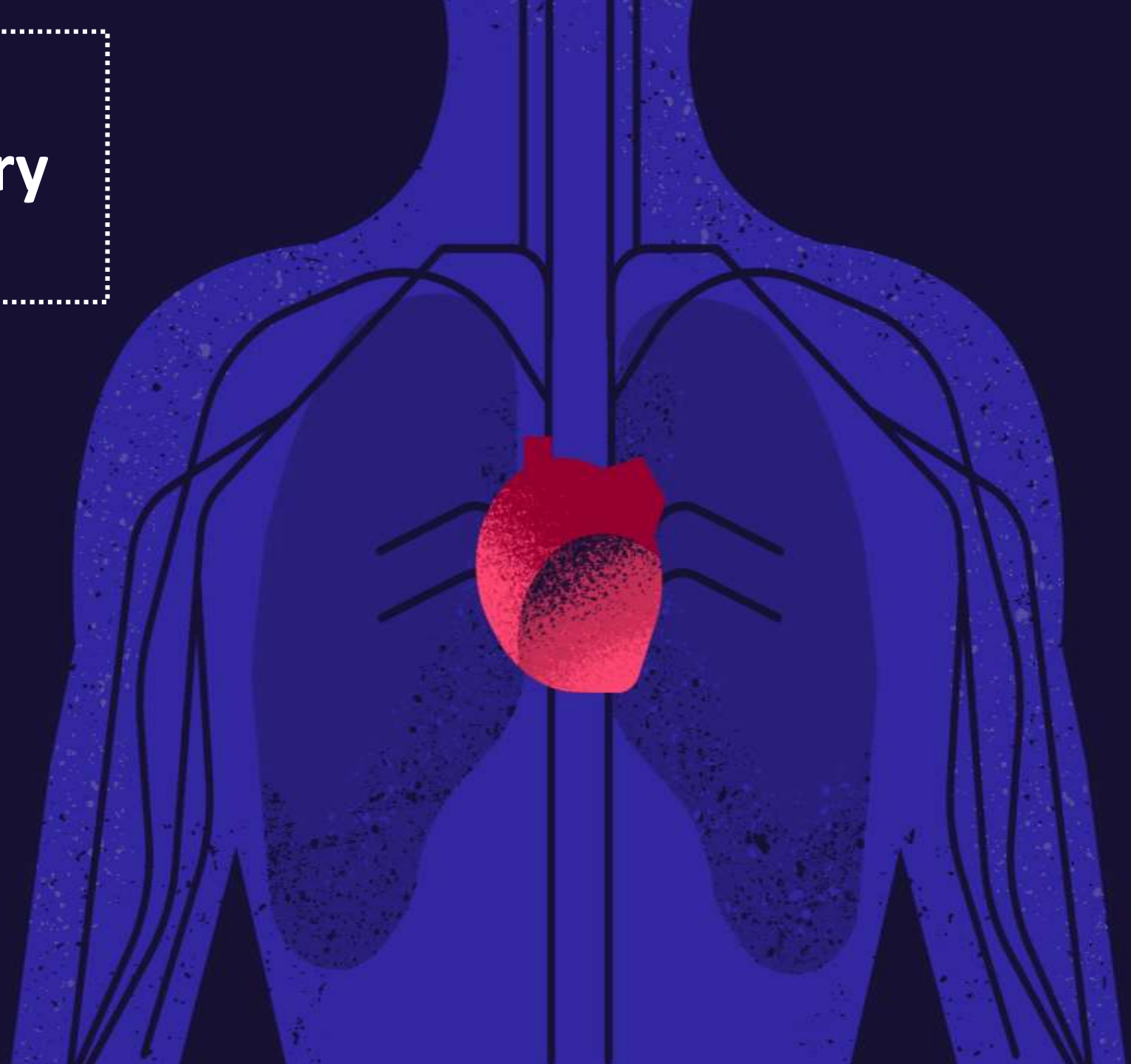
# We studied:

Plant parts

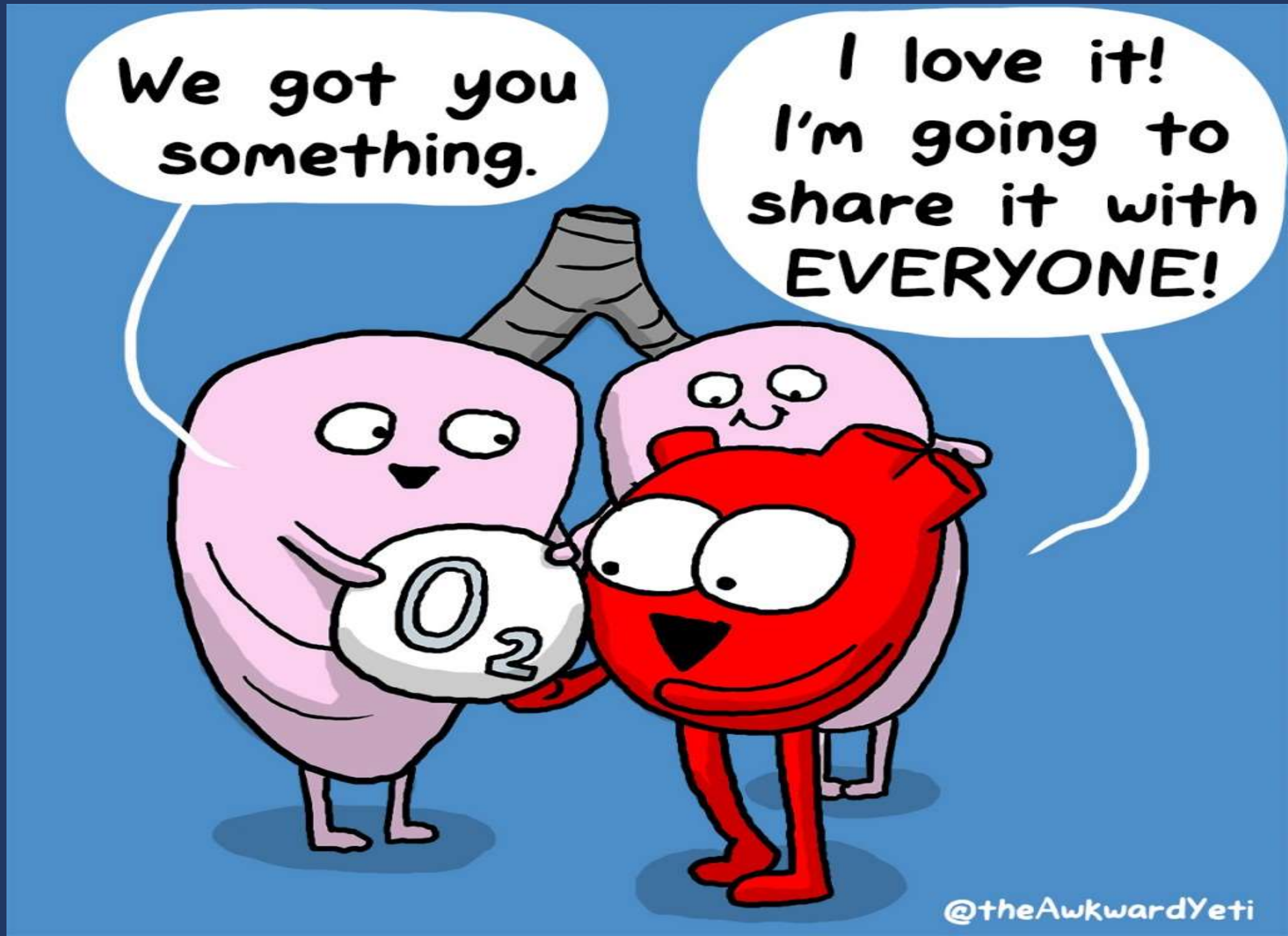
The life cycle of a plant

Plant adaptations

# The Circulatory System

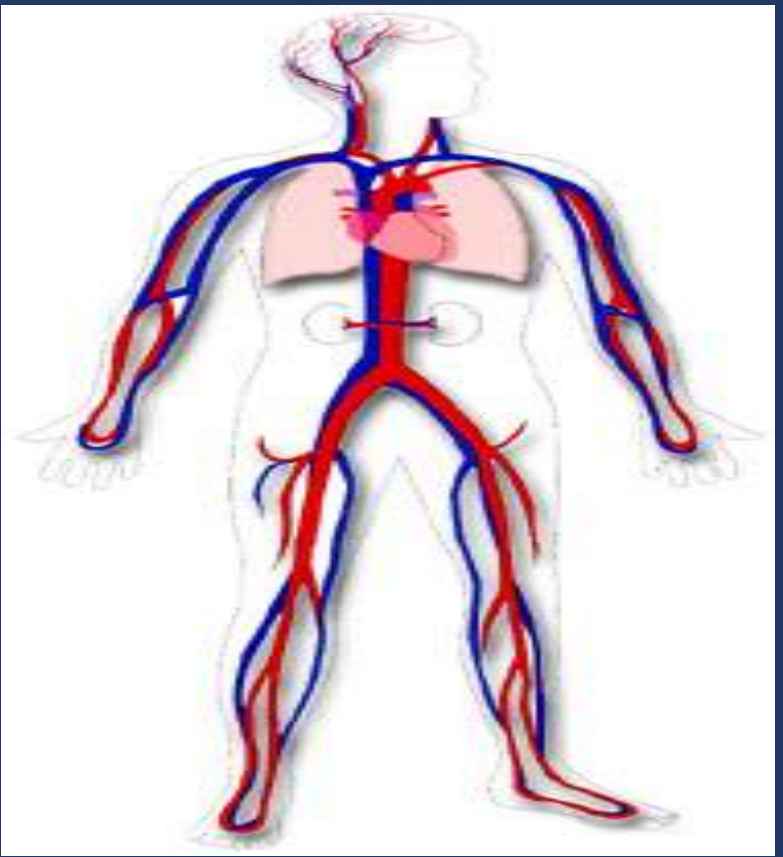


What is happening here?



# Your blood goes to your organs.

## It carries and delivers 2 things...



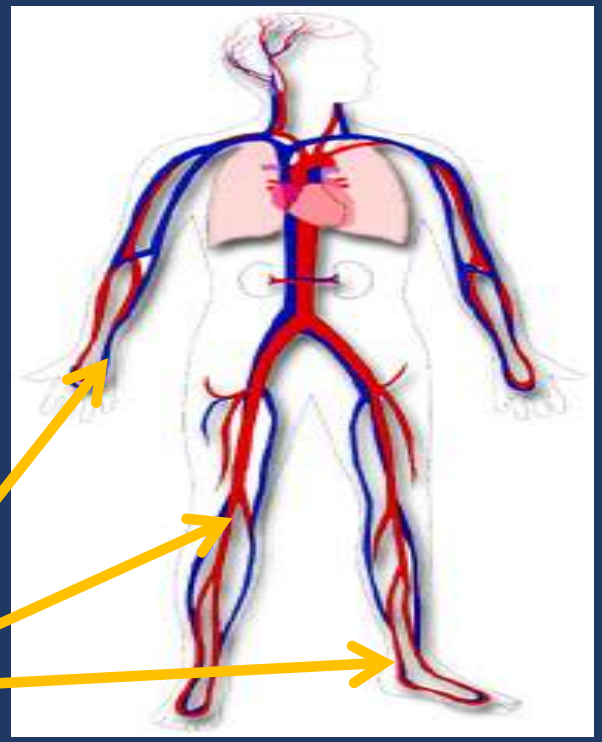
**oxygen**

**(carried by red blood cells)**

**nutrients**

**(carried in plasma)**

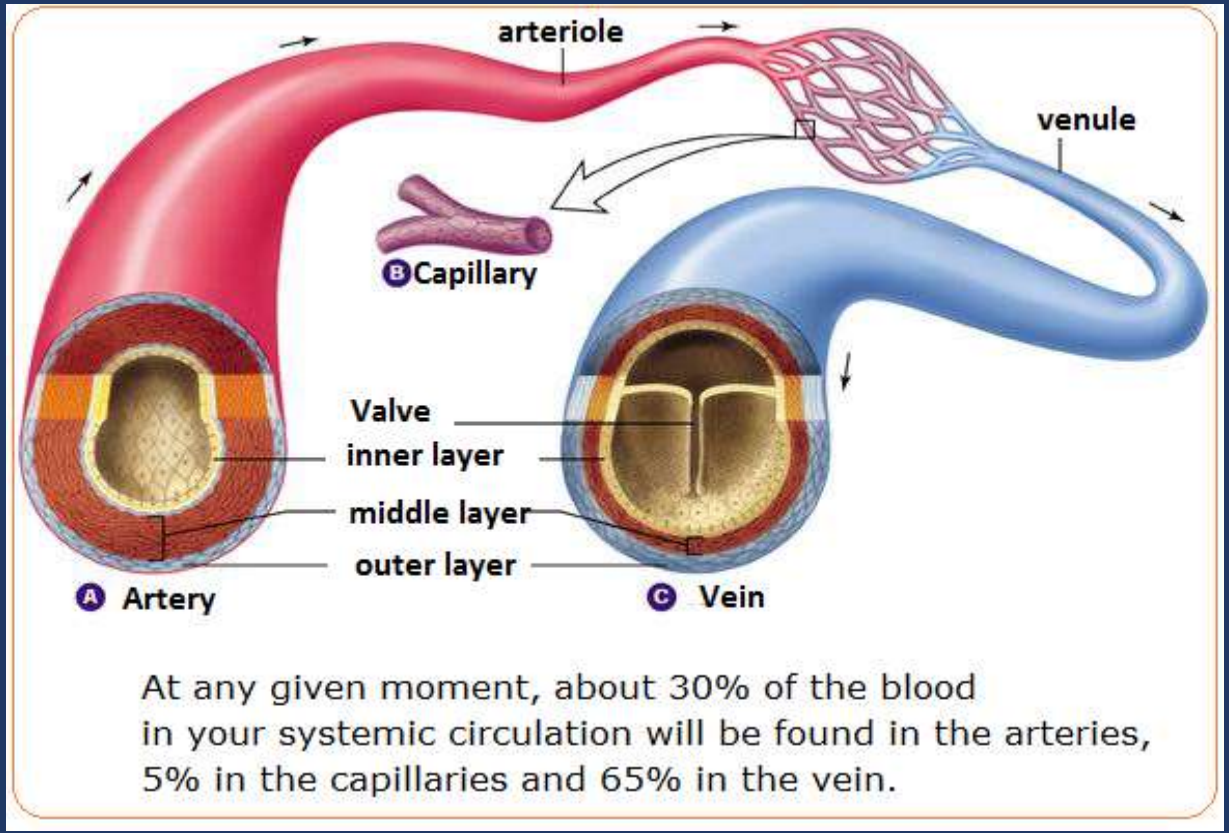
**How does blood get to your organs?**



**Through blood vessels.**

**These are like roads from your heart to your body.**

# There are 3 main types of blood vessel



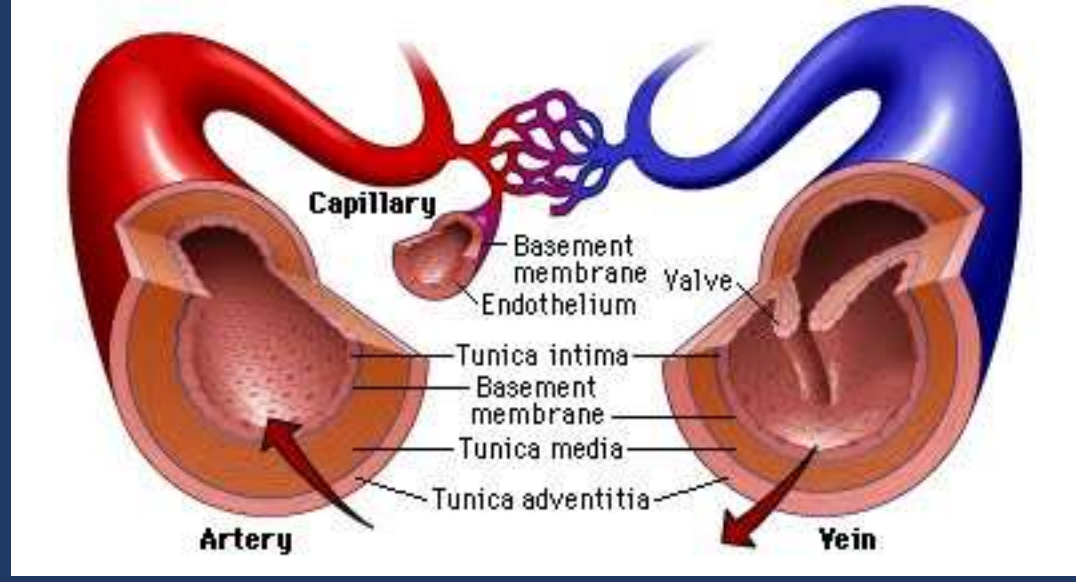

artery (arteries)

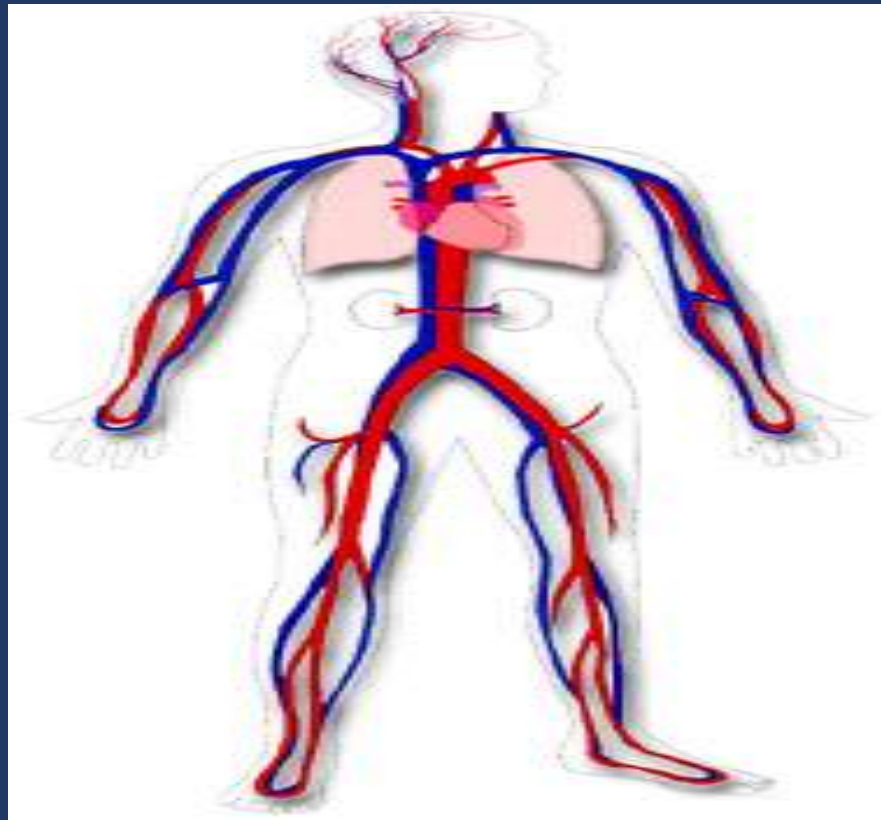
vein

capillary (capillaries)

# Arteries

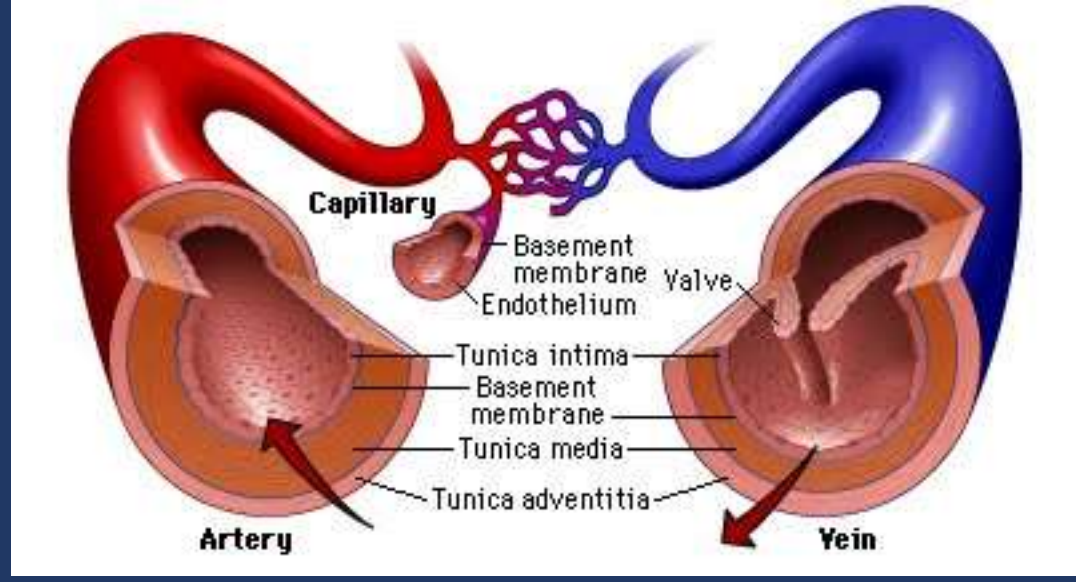
These carry red blood cells **with oxygen** to your body.

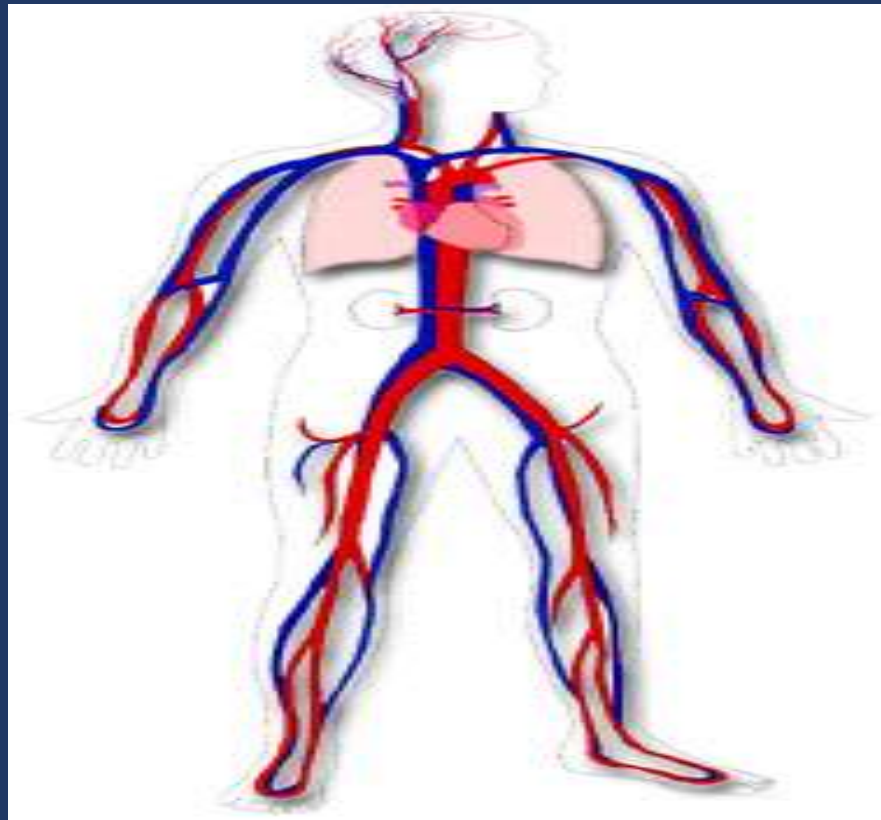


# Veins

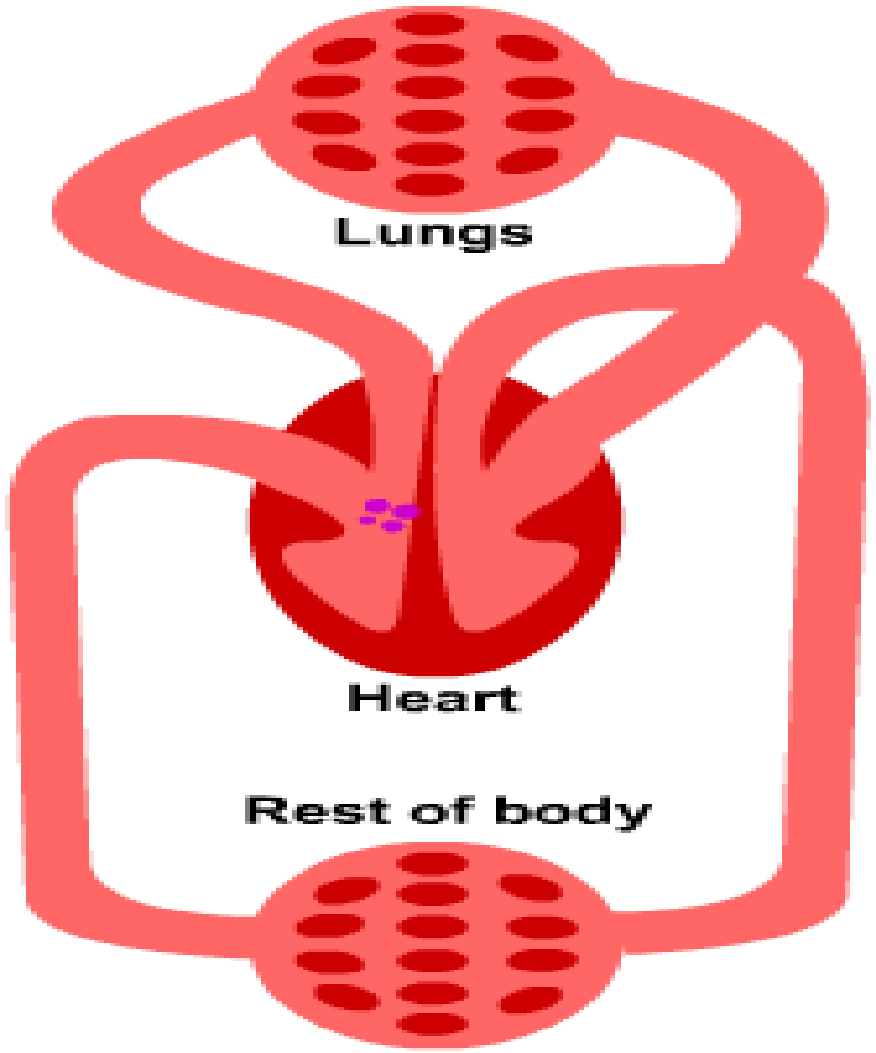
These carry blood cells **without oxygen** back to your heart.



# Circulation

veins take blood without oxygen to the heart

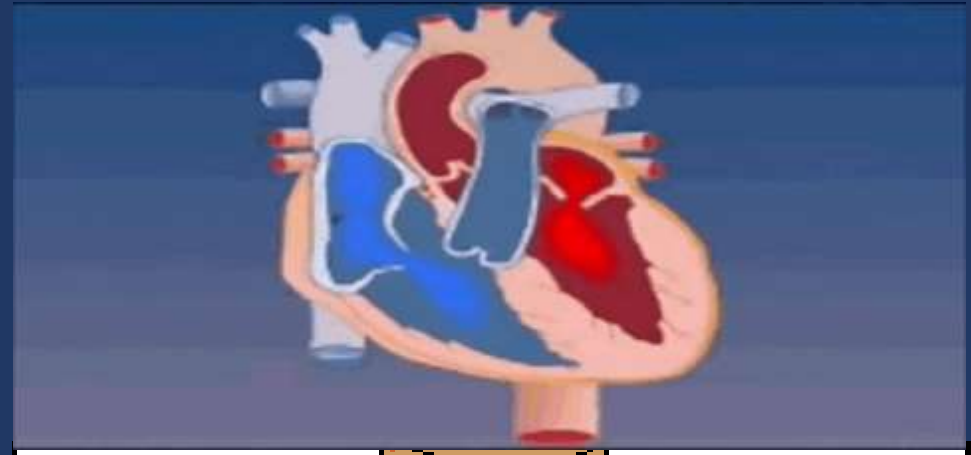


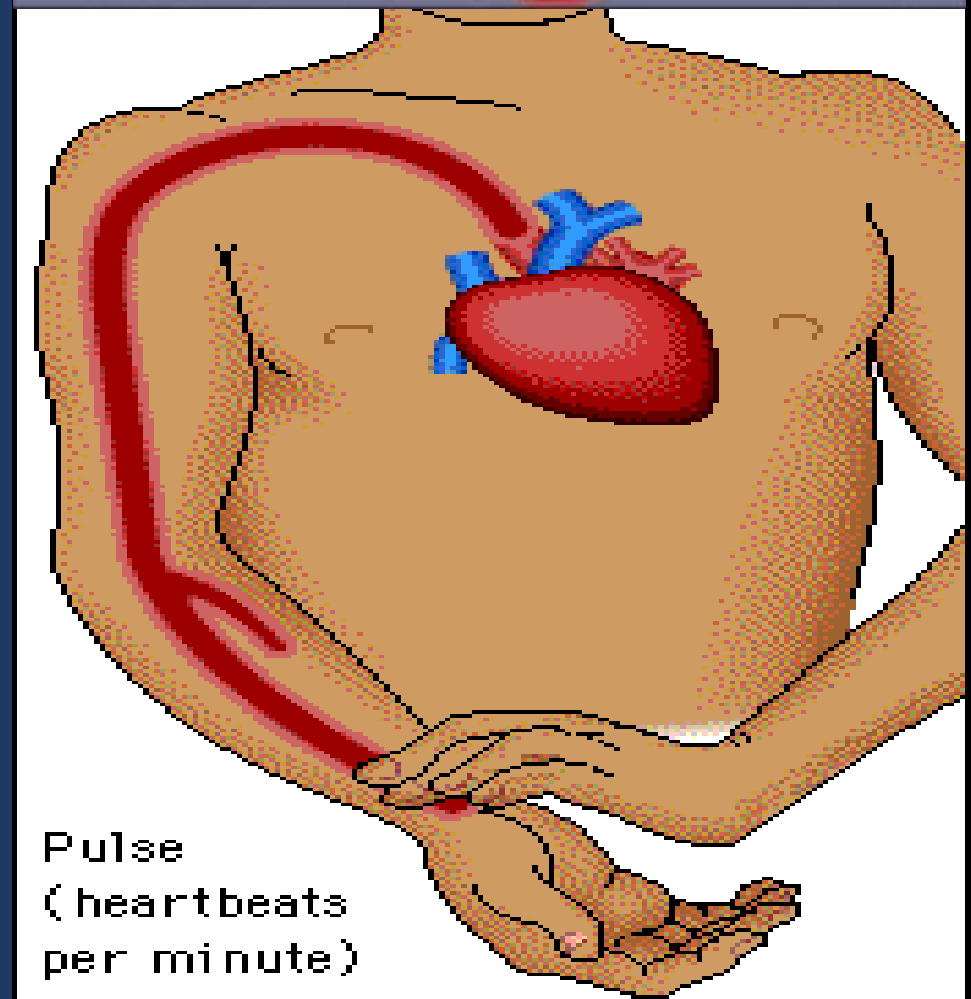

arteries take blood with oxygen to the body

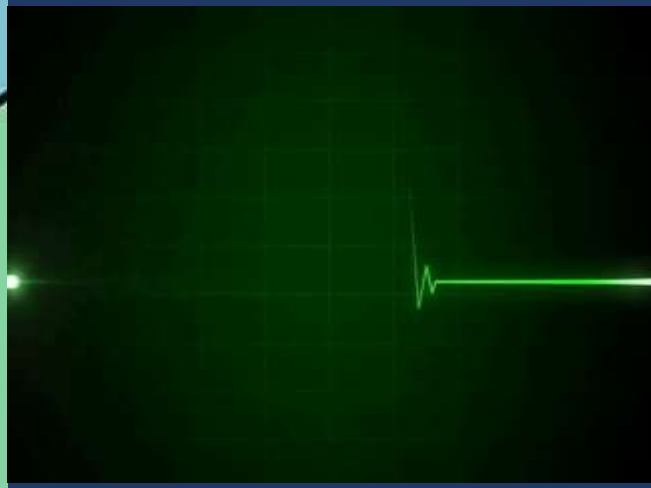
# Your Pulse Rate

How fast is your heart beating?

You can find it and measure your pulse rate?



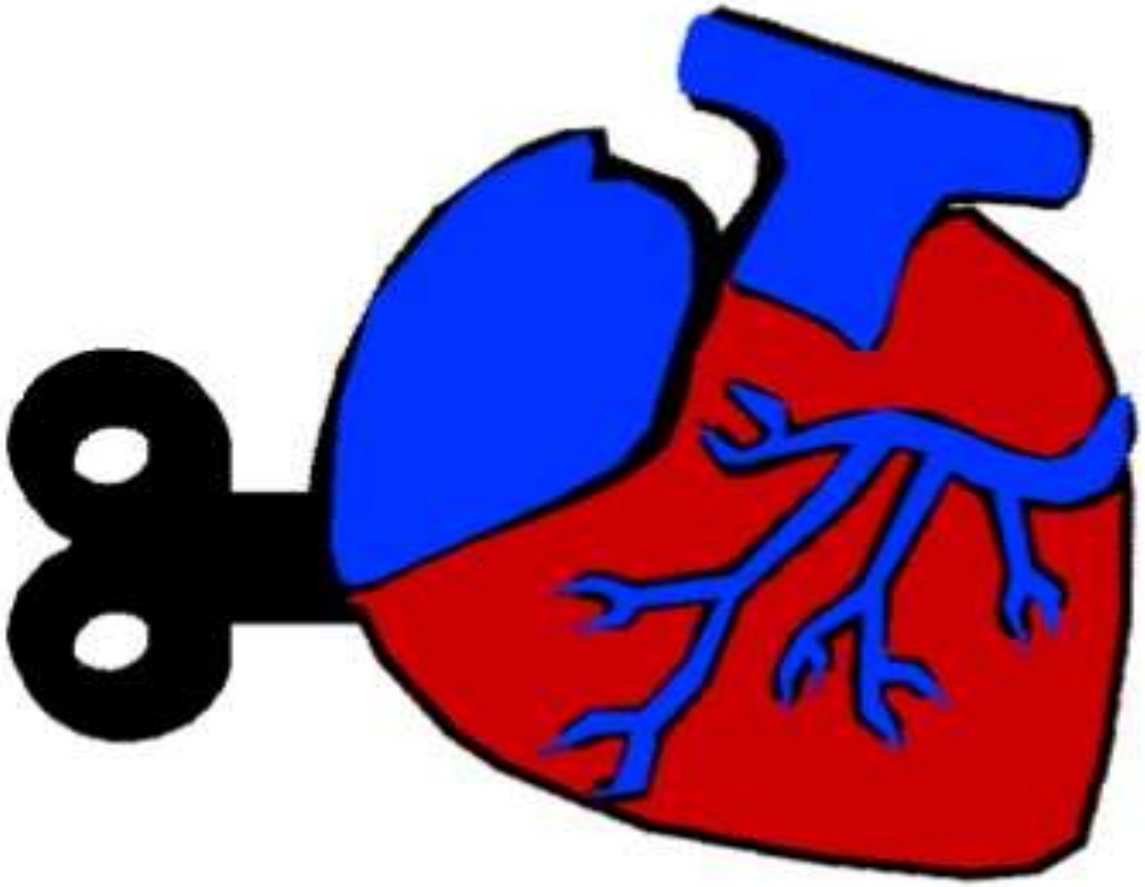




# Finding your pulse


**What happens to the man's pulse rate as he exercises?**

It increases!



# Circulatory system QUIZ

Write your answers on paper.

# Circulatory System Question Time

**Question 1**

What is the function of the heart?

**Answer:**

# Circulatory System Question Time

**Question 2**

What do the lungs put into the blood?

**Answer:**

# Circulatory System Question Time

**Question 3**

What are the tubes called that carry blood?

**Answer:**

# Circulatory System Question Time

**Question 4**

What happens to your heart when you exercise?

**Answer:**

# Circulatory System Question Time

**Question 5**

Write one thing blood delivers to the body.

**Answer:**

# Circulatory System Question Time

**Question 6**

What are the parts of the circulatory system?

**Answer:**

# Circulatory System Question Time

**Question 7**

What happens to your pulse rate after you finish exercise?

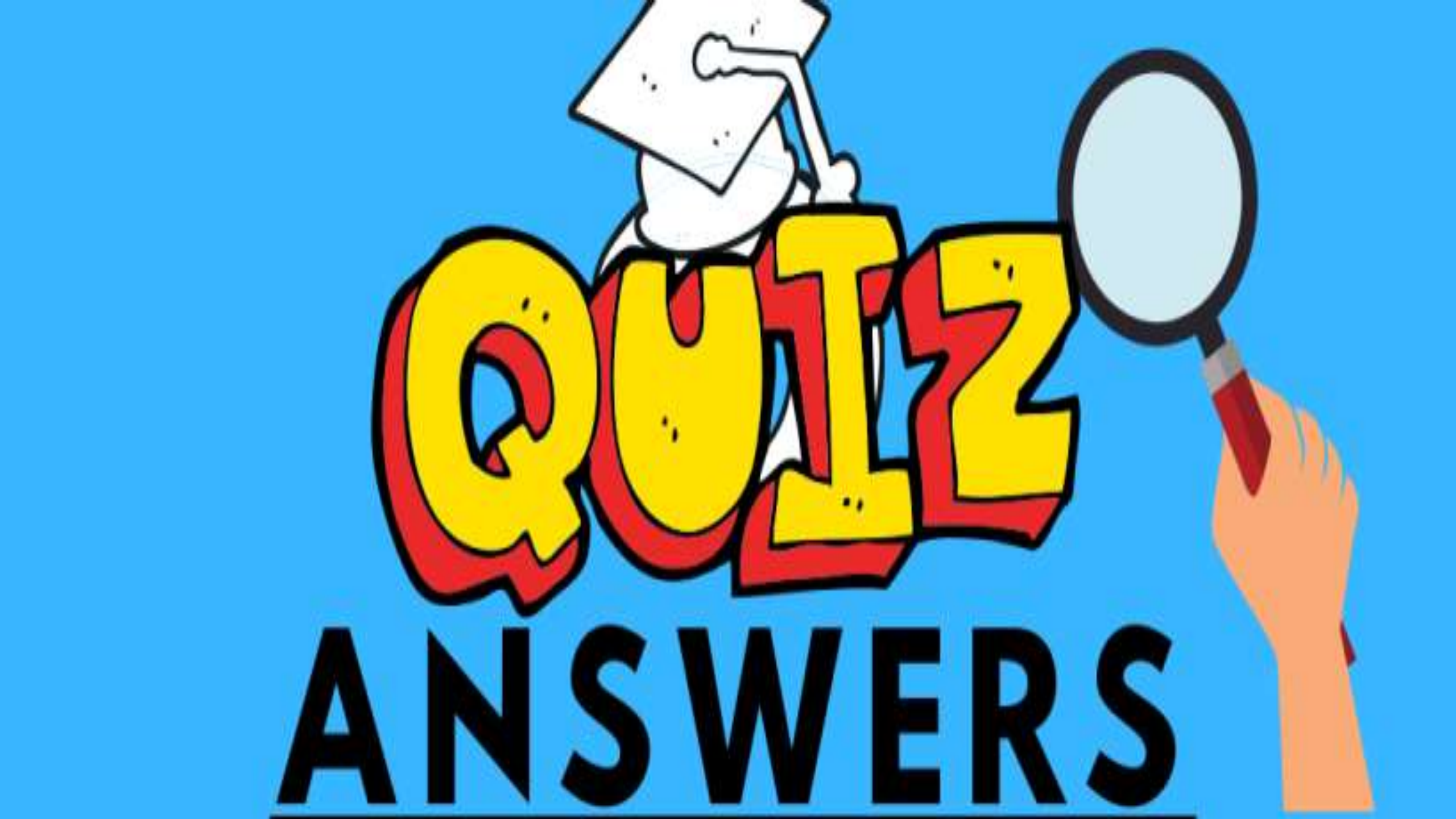
**Answer:**

# Circulatory System Question Time

**Question 8**

Why does your pulse increase when we exercise?

**Answer:**


QUIZ
ANSWERS

# Circulatory System Question Time

**Question 1**

What is the function of the heart?

**Answer:** **To pump blood.**

# Circulatory System Question Time

**Question 2**

What do the lungs put into the blood?

**Answer:** **Oxygen**

# Circulatory System Question Time

**Question 3**

What are the tubes called that carry blood?

**Answer:** **blood vessels**

# Circulatory System Question Time

**Question 4**

What happens to your heart when you exercise?

**Answer: It pumps harder.**

# Circulatory System Question Time

**Question 5**

Name one thing blood delivers to the body?

**Answer:** **oxygen / water / nutrients**

# Circulatory System Question Time

**Question 6**

What are the parts of the circulatory system?

**Answer:** **heart / blood vessels**

# Circulatory System Question Time

**Question 7**

What happens to your pulse after you ***finish*** exercise?

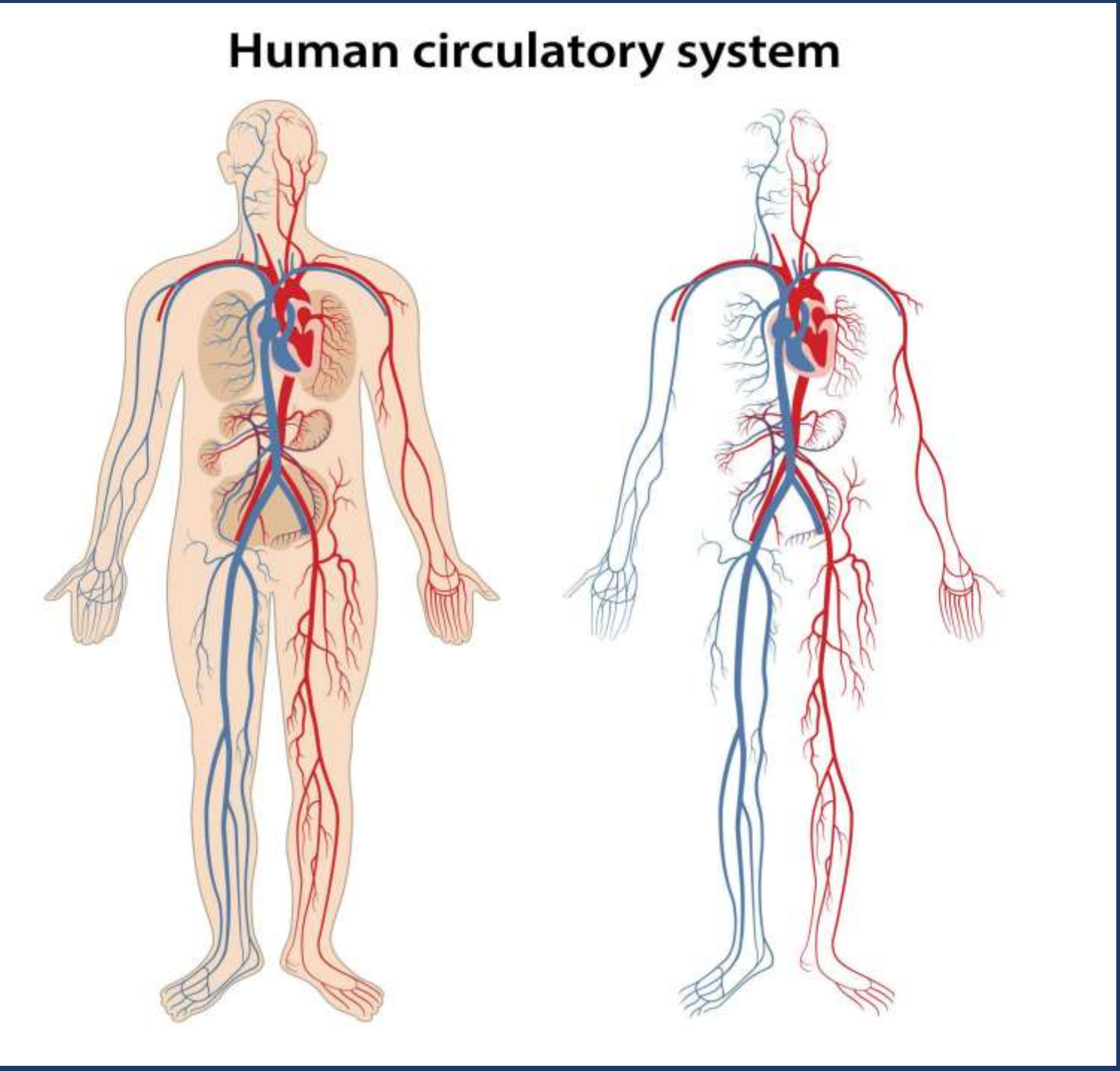
**Answer:** **it slows down**

# Circulatory System Question Time

**Question 8**

Why does your pulse increase when we exercise?

**Answer:** **Your body needs more oxygen.**



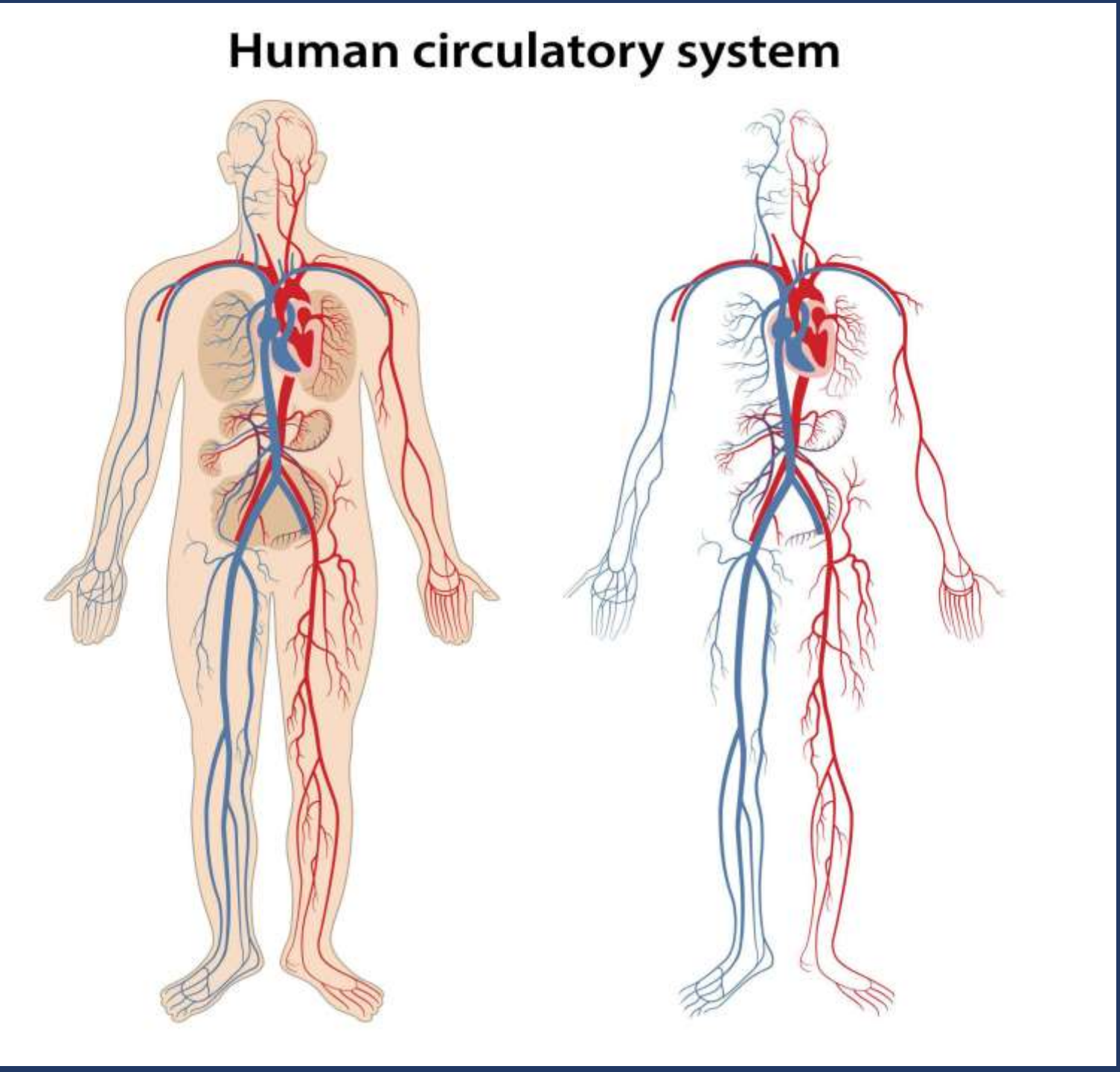

**Summary:**

**The circulatory system**

**- the heart**

**- blood vessels**

**- blood**



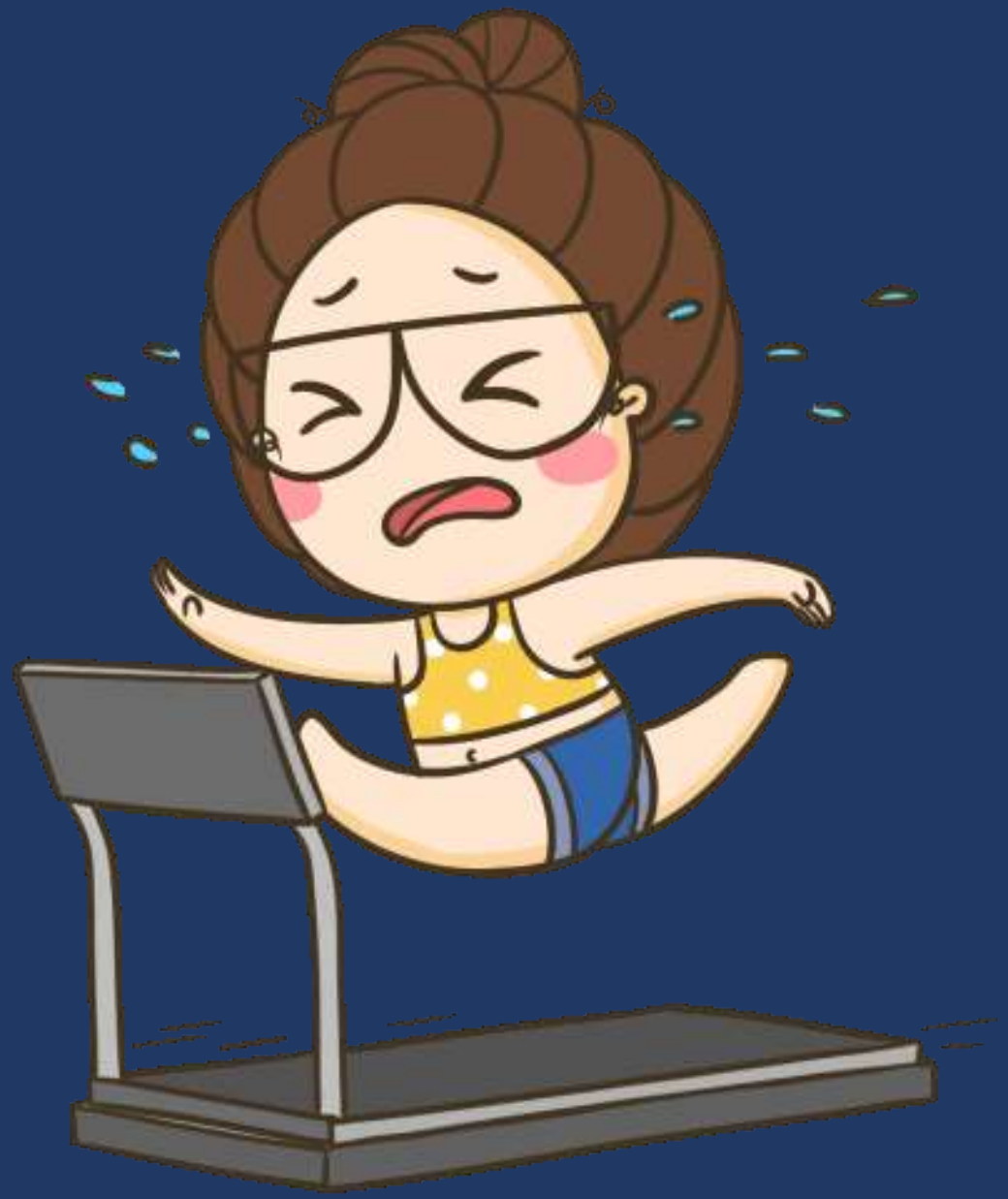

**Summary:**

**Blood delivers oxygen and nutrients to the body.**

**Blood takes away waste like carbon dioxide.**

**Summary:**

**Your pulse rate is how fast your heart is beating.**

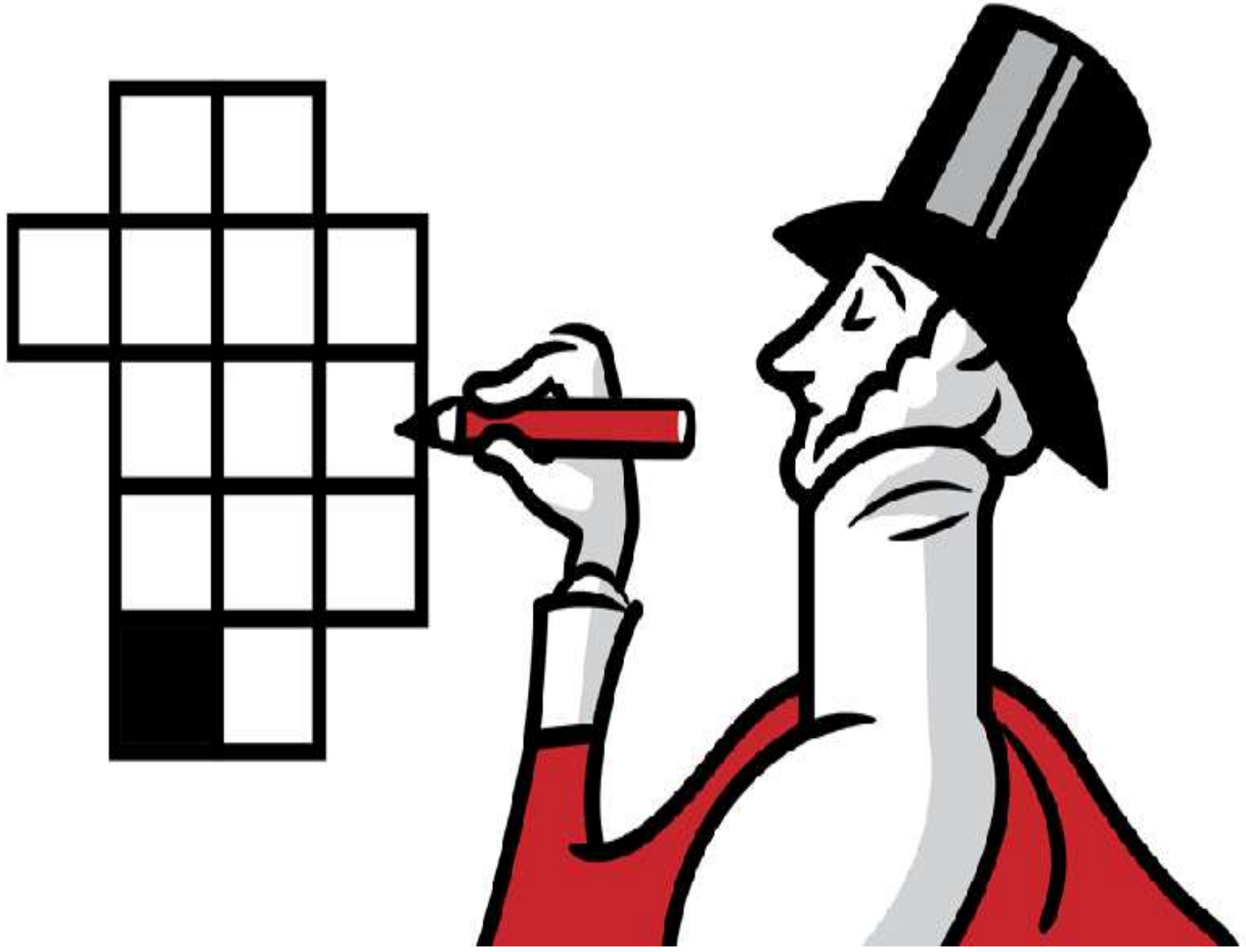


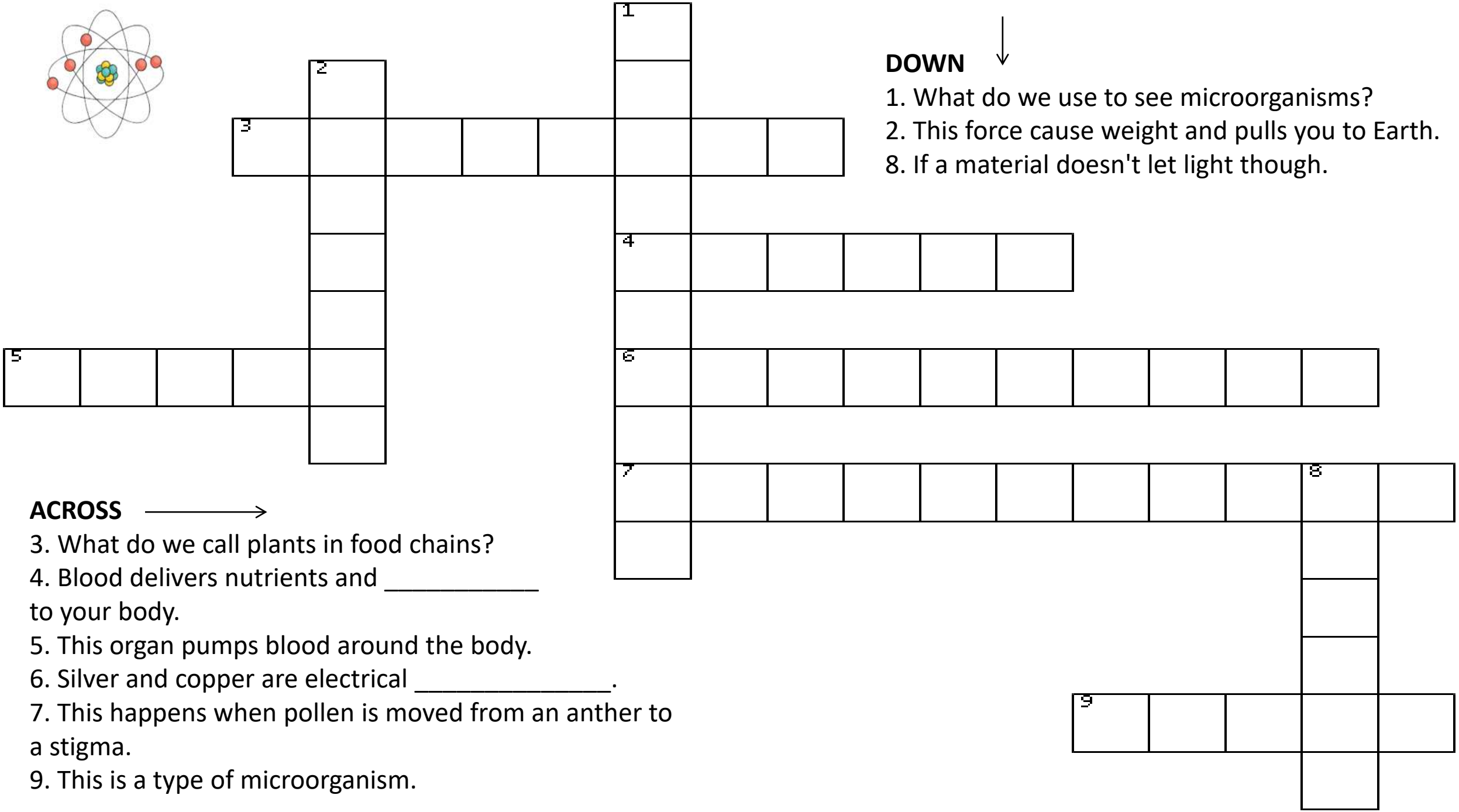
**Summary:**

**When you exercise your pulse rate grets faster.**

**When you stop exercise your pulse rate reduces.**

# Crossword Time



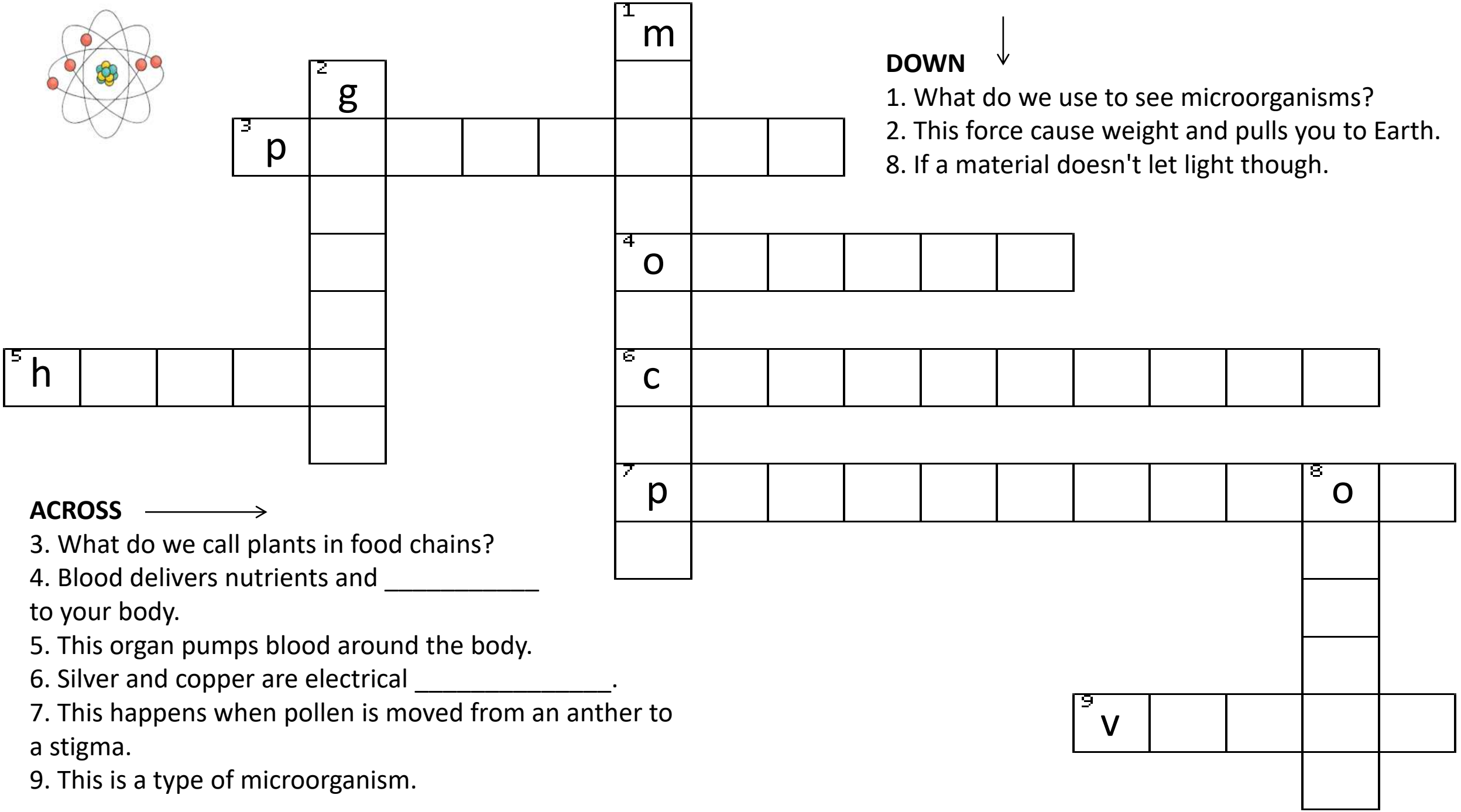



**DOWN** ↓

1. What do we use to see microorganisms?
2. This force cause weight and pulls you to Earth.
8. If a material doesn't let light though.

**ACROSS** →

3. What do we call plants in food chains?
4. Blood delivers nutrients and _____ to your body.
5. This organ pumps blood around the body.
6. Silver and copper are electrical _____.
7. This happens when pollen is moved from an anther to a stigma.
9. This is a type of microorganism.

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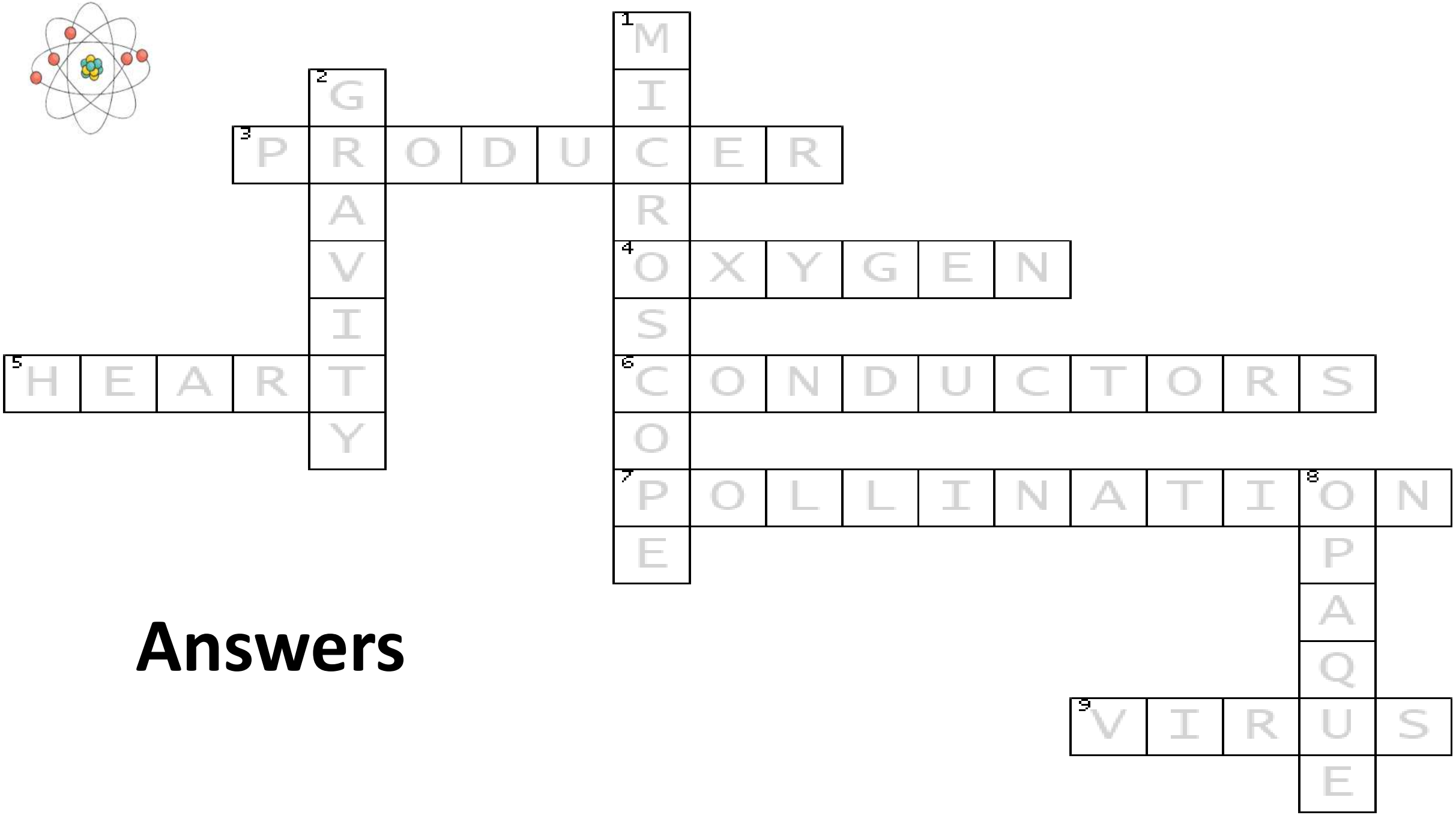
1 M I C R O S C O P E
2 G R A V I T Y
3 P R O D U C E R
4 O X Y G E N
5 H E A R T
6 C O N D U C T O R S
7 P O L L I N A T I O N
8 O P A Q U E
9 V I R U S

# Answers