





Myth busters!

Do you know which of these statements are **true** and which are **false**?



1. All blood is red



2. Blood contains metal



3. Blood is made in the heart



4. The average body contains roughly 9 pints (4.5 litres) of blood



5. A person's blood vessels, arranged end-to-end, would stretch the length of the playground – and beyond!







Learning aim

Can I describe the different components of blood and explain their impact on human health?

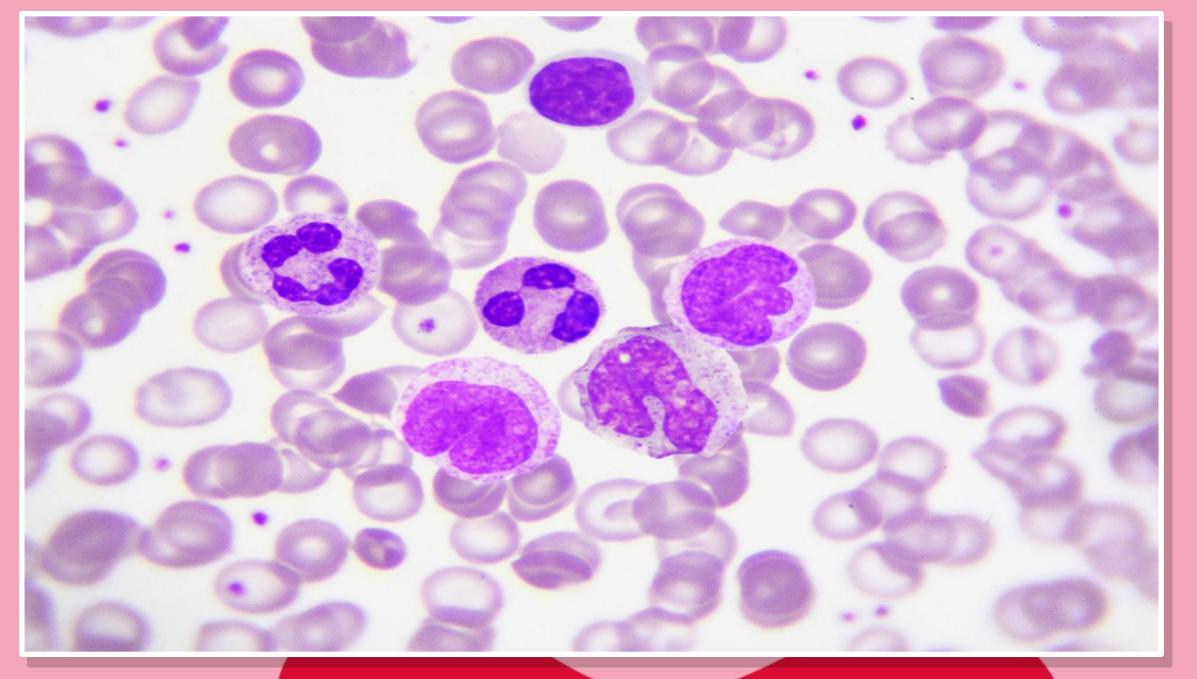
Success criteria:

- Identify the main components of blood and their different functions
- Describe the composition of blood using percentages
- Explain how changes in a person's blood can impact their health and wellbeing and how blood donation can help





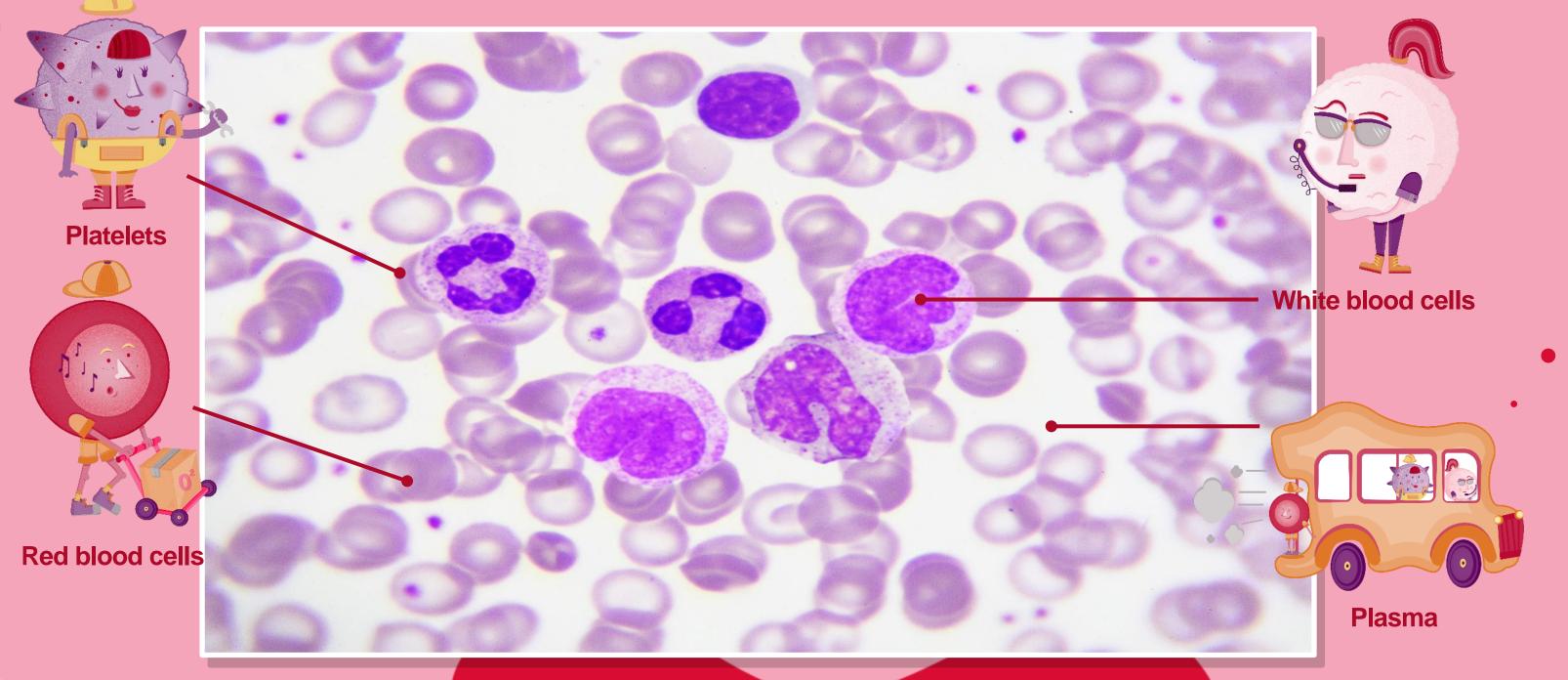
What can you see?







What's blood made of?







Red blood cells





"I deliver oxygen around your body and take away waste"





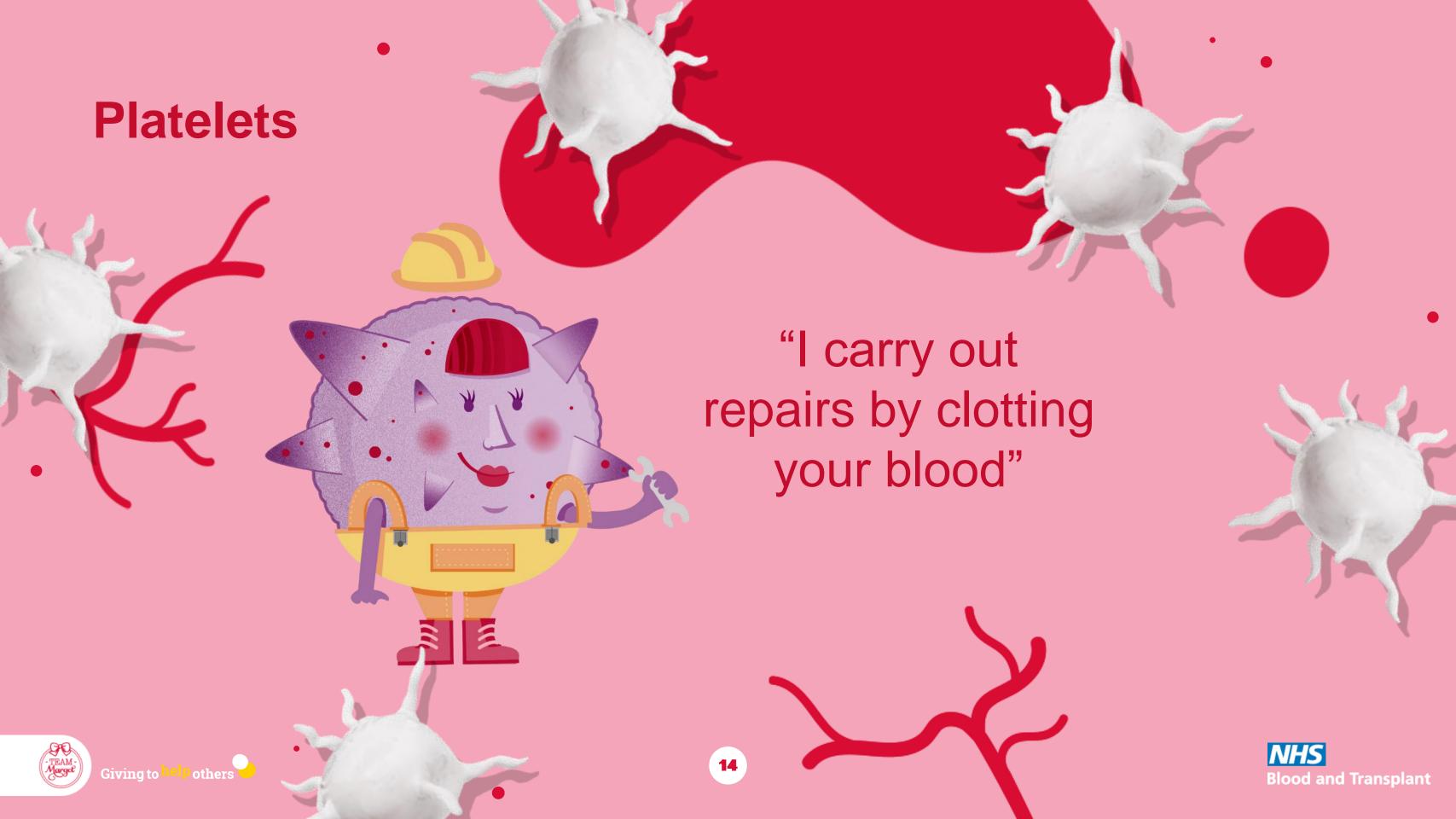


White blood cells

"I hunt down germs and protect you from disease"







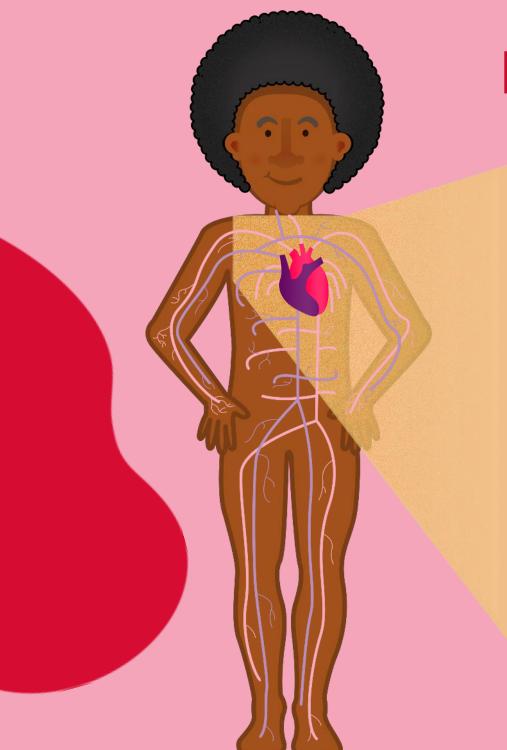
Plasma

"...and I provide the transport"







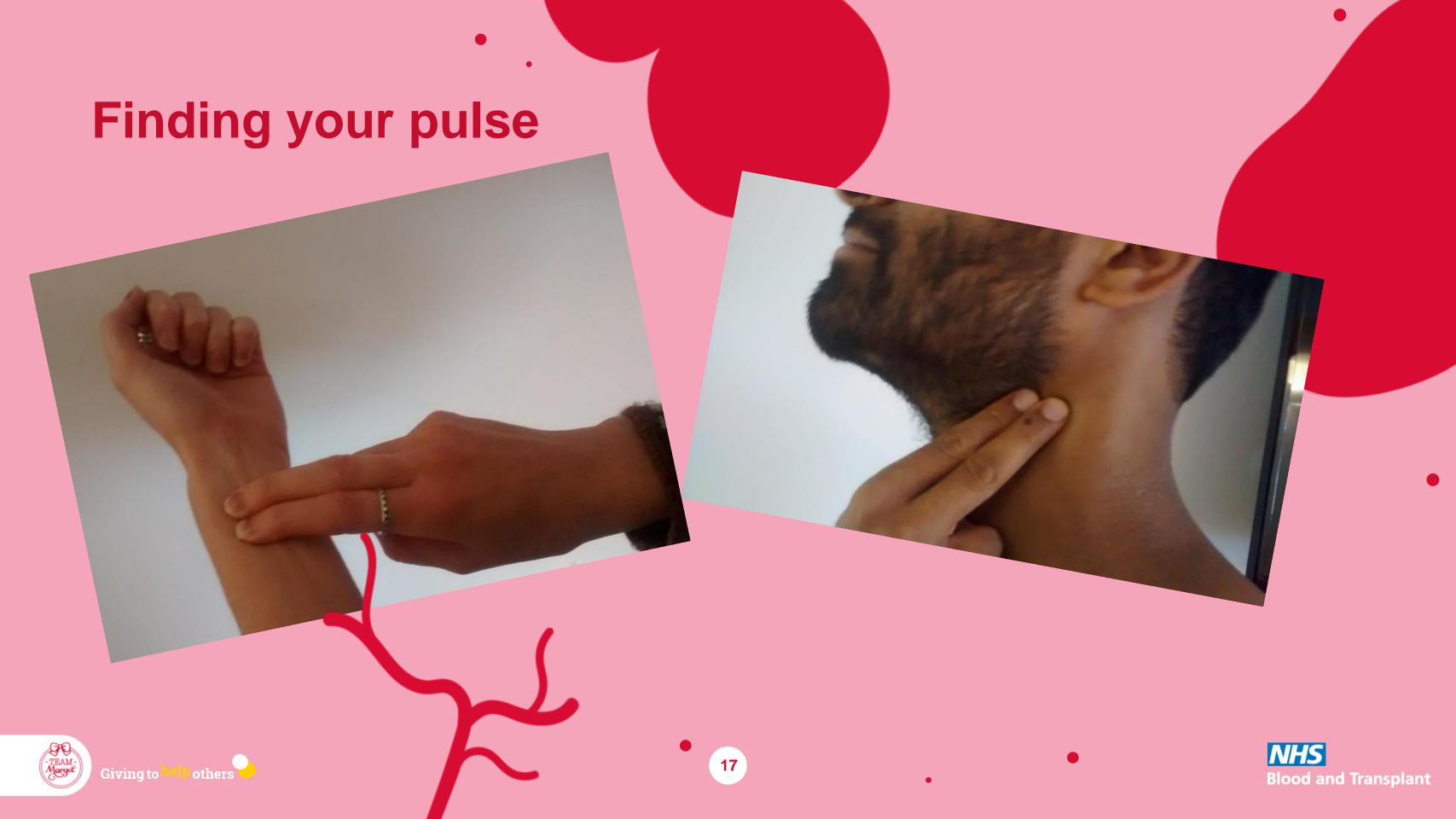


How does blood travel?









Can you calculate the quantities?

What you know:

- White blood cells and platelets make up 2% of a person's blood.
- The ratio of white blood cells and platelets to red blood cells is **1:22**.
- 1.5% of a person's blood is made up of white blood cells.

Blood cells	Percentage of blood (%)
Plasma	54%
Red blood cells	44%
White blood cells	1.5%
Platelets	0.5%





Can you calculate the quantities?

What you know:

- A person's blood contains three times more white blood cells than platelets.
- The ratio of white blood cells and platelets to red blood cells is 1:22.
- White blood cells and platelets make up 2% of a person's blood.

Blood cells	Percentage of blood (%)
Plasma	54%
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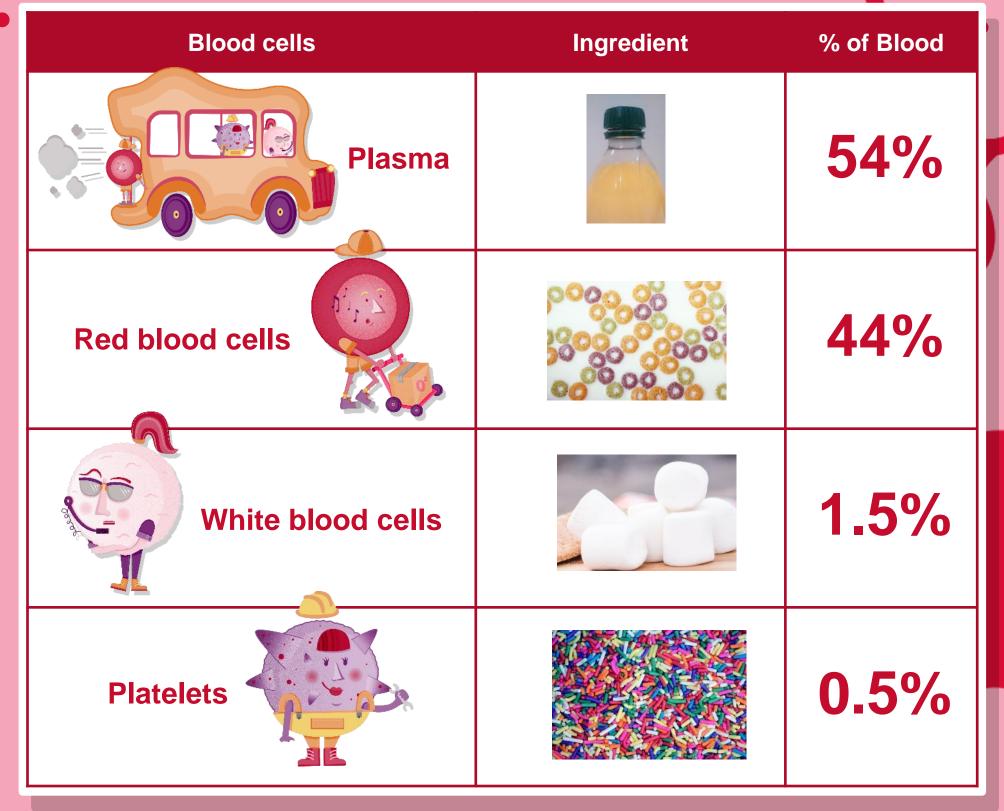


Your recipe

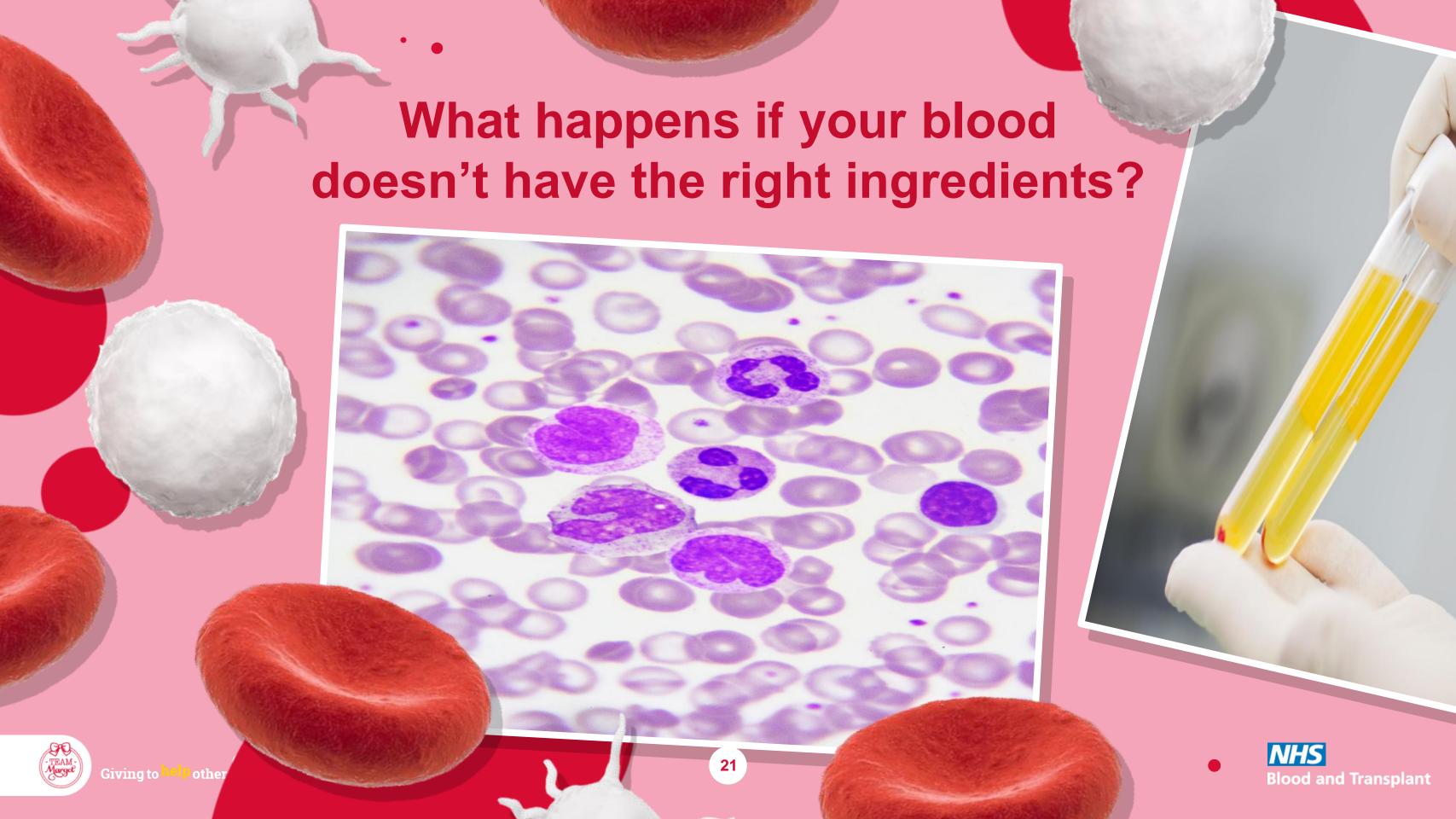
Use the recipe to make an accurate representation of blood.

Think carefully about how much of each ingredient you will need.







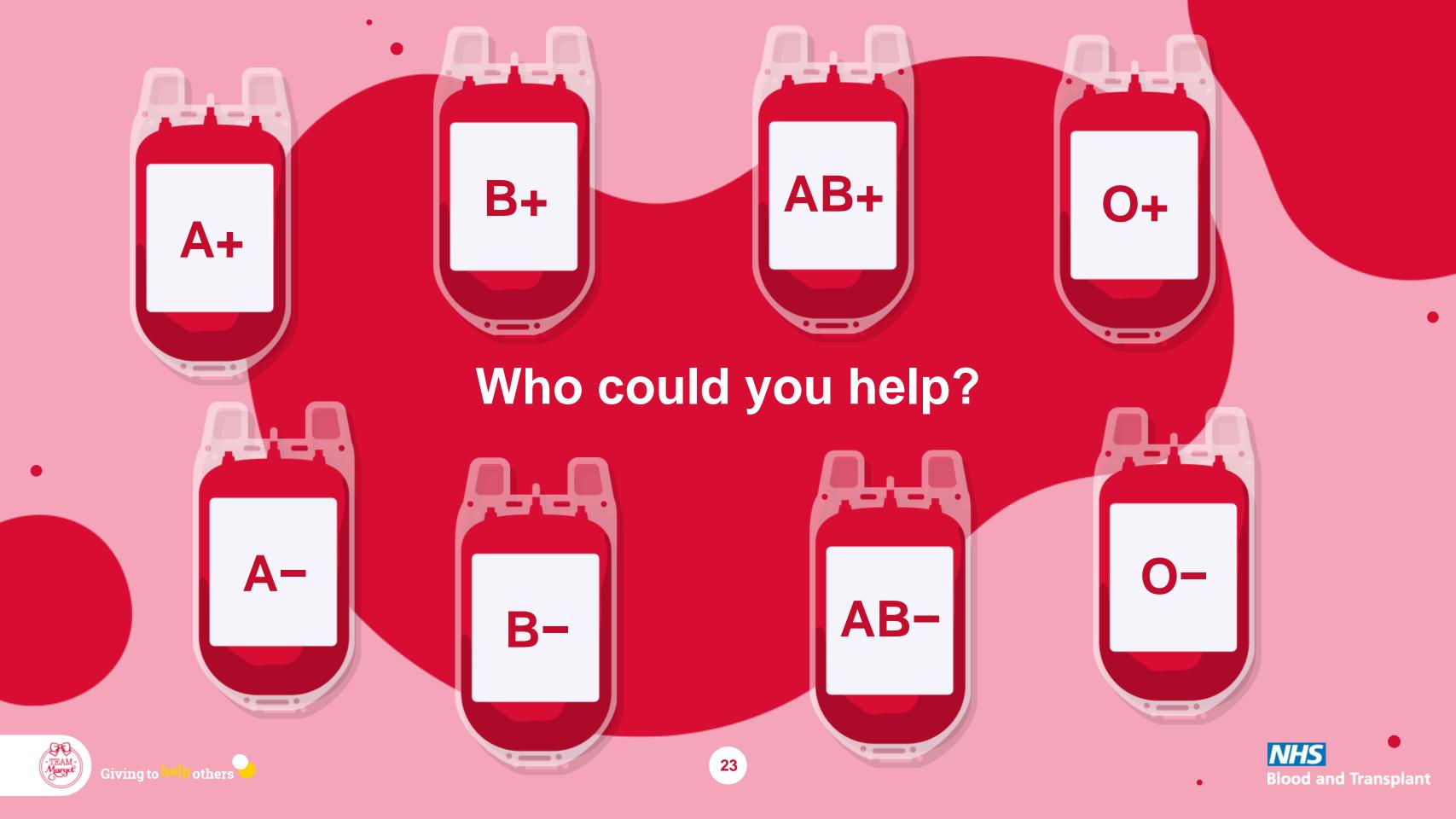


Why do people give blood?











'Giving to help others'

Help spread the word!

See extension activities



