



Year 6 Home Learning – Summer Term 1

Science: Circulatory System. During this project, we will learn about the structure and function of the heart, blood and blood vessels. We will also look at the effect of exercise on the body, as well as the effect of alcohol and drugs.

Choose one or more of these reasoning scenarios. Present your findings fully, with research or evidence of investigation.

Other project ideas:

Find out how a defibrillator works and where the nearest ones are to school and your home.

Draw and label a picture of a heart; different blood vessels and the ...



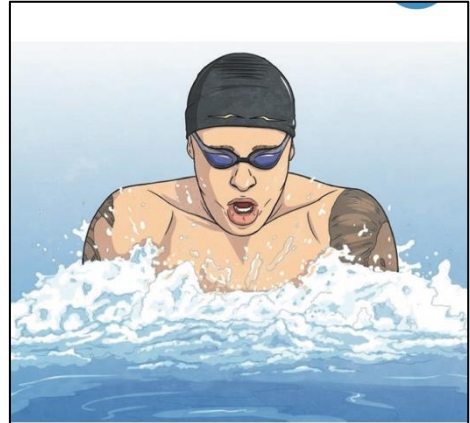
Use what you know about the heart to discuss why different animals have different sized hearts.

Useful information:

Both the orca and the mouse are mammals and they have four chambers in their hearts.

An average orca is about 7 metres long.

An average house mouse is about 11 centimetres long including its tail.



Adam Peaty is an Olympic swimmer.

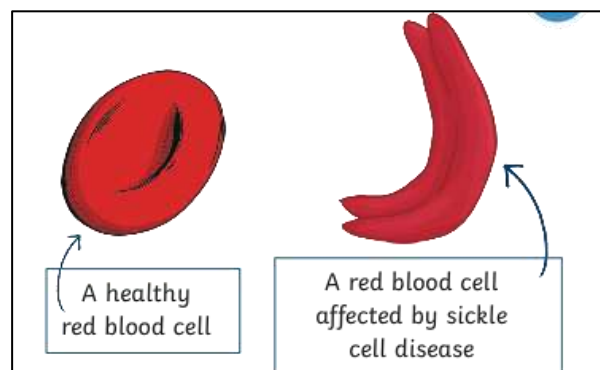
Government guidelines recommend that a fully grown man should eat about 2500 calories per day. At some points in the year, Adam eats about 7500 calories per day. Why do you think this is?

I think if I did two minutes of running it would affect my body more than if I did two minutes of yoga.

Cally

No, two minutes of any exercise would have the same effect on you. It doesn't matter what the exercise is.

Jack



Use what you know about red blood cells to discuss how the unusual shape might affect a person who has sickle cell disease.

Useful information:

- Red blood cells usually look like round discs.
- People affected with sickle cell disease produce 'crescent moon' or 'sickle' shaped red blood cells. A sickle is an old farm tool.
- A round disc is a good shape for red blood cells because they can move easily through the blood vessels.

Who do you think is right? How do you know that they are correct and what could you do to prove this?