

Summer gap task 2024

Level 3 Cambridge Technical award in Health and Social Care

The structure and function of blood and its role in combatting foreign bodies.

This is a knowledge and application task linked to key content into Unit 4 Anatomy and Physiology, specifically the structure and function of blood. Please reference, where appropriate, the sources of information used to support your response to this task.

Firstly, you will need to show your understanding by researching the Key Knowledge section of this task. You should aim for approximately one thorough paragraph on each of the different structures that together are referred to as blood. You should then do the same, identifying the different functions of blood. One of the functions, as you will discover, is to prevent infections. At this point you should explain in a few sentences the differences between Bacteria, Pathogens and Viruses.

Key knowledge: Explain the following

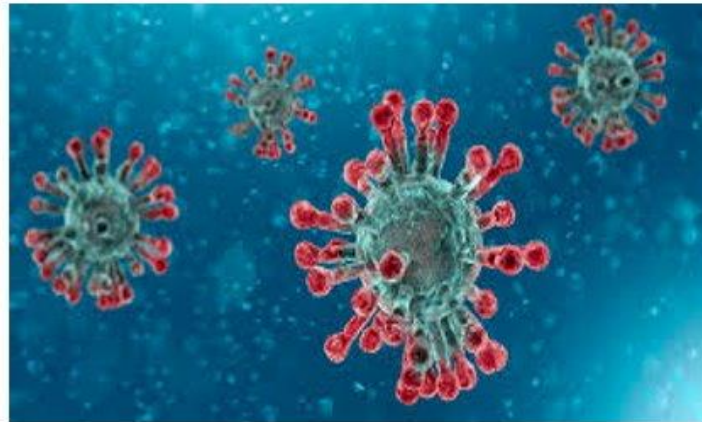
The structure of blood

The function of blood

Bacteria

Pathogens

Viruses



Having now understood the key knowledge, answer the following question. Use the structure support and word count (approximately 700 – use a 10% rule) to help you with neither over, or under explaining. |

How does blood react when an individual is exposed to a virus?

VIRUS GUIDANCE. YOU COULD FOCUS ON A VIRUS OF YOUR CHOOSING. FOR EXAMPLE COVID 19, FLU, TETNUS, POLIO, HEPATITUS B, OR MEASELS.

STRUCTURE SUPPORT:

INTRODUCE THE TERM VIRUS AND PROVIDE AN OVERVIEW OF WHAT COVID 19 IS (50 WORDS)

SUMARISE WHAT THE STRUCTUREAND FUCNTION OF BLOOD IS (150 WORDS)

DETAIL THE DIFFERENCES BETWEEN BACTERIA, PATHOGENS AND VIRUSES WHEN EXPLAINING ONE OF THE FUNCTIONS OF BLOOD IS TO PREVENT INFECTION (150 WORDS)

RESEARCH HOW COVID 19 AND VIRUSES IMPACT BLOOD AND WHY VIRSES ARE MORE DIFFICULT FOR THE BODY TO COMBAT THAN BACTERIA OR PATHOGENS (100 WORDS)

EXPLAIN HOW A VACCINATION WOULD LIKELY WORK INSIDE THE BODY/WITH THE BLOOD (150 WORDS)

CONCLUDE WITH AN OVERVIEW OF HOW BLOOD REACTS TO VIRUSES AND THE BENEFITS OF A RISE IN VACCINATED INDIVIDUALS TO THE GLOBAL POPULATION (100 WORDS)

Additional Guidance:

You can conduct your own research for this investigative task or use some of the suggestions below.

The Khan Academy. <https://tinyurl.com/3vt46c2t>

Visible body. <https://tinyurl.com/67k9b5xz>

Institute of molecular bioscience <https://tinyurl.com/xh49kshx>

The World Health Organisation <https://tinyurl.com/wmdhhjw4>

The Government website on Covid <https://tinyurl.com/272xhthd>

The Royal College of Pathologists <https://tinyurl.com/2s46a7fs>