**IB Storyboard Activity – Immune response**

These images tell the story of how lymphocytes protect the body from infection of bacteria. Write a commentary next to each image to explain the antibody response :

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|  | | * An IB student has cut their finger on a sheet of difficult past paper questions. Normally the skin is a physical barrier to infection, it stops bacteria from entering the body. This cut is a way into the body for bacteria | |
|  | | * Bacteria have entered the cut but fortunately, cells of the immune system detect the bacteria? Explain the role of antigens   ..............................................................................  ...............................................................................  ............................................................................... | |
|  | | * There are many cells in the blood. Two types of blood cell help the body to destroy the bacteria Name the two cell types & their functions.   ...............................................................................  ...............................................................................  ...............................................................................  ............................................................................... | |

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|  | | * Many types of lymphocyte produce one type of antibody each. Why are there so many different types of lymphocyte in the blood?   ...............................................................................  ...............................................................................  ............................................................................... |
| **Lymphocyte clones** | * One type of lymphocyte produces an antibody which attaches to the antigens of the bacteria. What does it do?   ...............................................................................  ...............................................................................  ............................................................................... |
|  | | * The antibodies are produced in large numbers and attach to the antigens of the bacteria. How does this help to protect the body from the bacteria?   ...............................................................................  ...............................................................................  ............................................................................... |
|  | | * Phagocytic leucocytes to complete the destruction of the bacteria. Explain what they do.   ....................................................................  ........................................................................  ........................................................................ |

