**HIV and AIDS**

Watch this short animation:

* [ HIV & AIDS explained in a simple way](http://youtu.be/DzXgCW9YcNg)

Watch this second video which shows the way T-lymphocytes work in the immune system:

* [ HIV and T-lymphocytes](http://youtu.be/ng22Ucr33aw?t=26s)

Make notes here as you watch the video:

Now turn over and answer the questions on the worksheet, you may want to watch the videos again as you formulate your answers.

**HIV infection – reduces the active lymphocyte number**

Write answers in the spaces next to the images in the table below.

These points summarise the effects of HIV infection on the immune system

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| What is HIV?............................................................................................................................................................Which cells in the blood does it infect?............................................................................................................................................................ |  |
| Outline how viruses (including HIV) replicate?........................................................................................................................................................................................................................................................................................................................... |  |
| State the roles of the two chemicals which helper T-cells produce............................................................................................................................................................................................................................................................................................................................ |  |

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| When there is an infection in the body Helper T- cells cause a type of B-Lymphocyte to multiply.What protein do these ‘activated’ lymphocytes then produce?.............................................................................................................................................................. | **Lymphocyte clones** |
| If the lymphocytes don’t get the signals from the helper T-cells what happens to the number of antibodies?............................................................................................................................................................................................................................................. | **Antibodies bind to pathogens** |
| Once the body has too few helper T-cells and the immune system is slower to respond what other problems can affect the body?............................................................................................................................................................................................................................................. |  **Bacteria growing on cells**  |
| Explain what AIDS is?............................................................................................................................................ |  |



