**HIV and AIDS**

Watch this short animation:

* [[http://www.e.thinkib.net/img/icons/video.png](http://youtu.be/DzXgCW9YcNg) 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:

* [[https://www.thinkib.net/img/icons/video.png](http://youtu.be/ng22Ucr33aw?t=26s) 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?  ....................................................................  ........................................................................ |  |



