

Science  
Body defences  
Book: Body Book  
Pages 36-39

Students: Fill in the answers and return for assessment

Everything here is based on our Curriculum Visions Body Book.

In this segment, we are going to learn about how the body defends itself from injury and disease.

You will need to go to pages 36-37 of the book.

#### Part 1

How are bacteria able to enter the body?  
How are viruses able to enter the body?

Answer ...

Bacteria form capsules (spores) that protect them from being killed by heat, or drying out while they pass from body to body.  
Viruses do not appear to be alive, so they 'trick' the body into thinking it does not need to defend against them.

#### Part 2

How do white blood cells attack and kill intruders like bacteria?  
Where in the body do viruses breed?

Answer ...

The white blood cells 'eat' the intruder; chemicals in the white blood cells then destroy the invader.  
Inside cells.

Now turn to pages 38-39 of the book.

#### Part 3

What causes allergies?  
What is the difference between antibiotics and antiseptics?  
How do vaccines work against viruses?

Answer ...

The immune system mistakenly reacts to a harmless substance.

An antibiotic kills bacteria in the body; an antiseptic is a chemical that kills bacteria on the skin.

A vaccine contains either weakened or killed germs. These cause the body to produce a defence, which is then available the next time the body comes across the germ.

That is the end of this worksheet, and you can now turn to another one. Also, find out if your teacher has left you any other worksheets or special instructions on your school website.

If you are interested in this topic, continue to browse the book and watch our amazing videos. They start right on the book cover.

Or you may want to see related books. If so just go to the top of the screen, select science, and from the page that opens choose Body Book.