active acquired immunity	the body undergoes the immune response and memory cells are produced
advanced symptoms	symptoms that occur when a disease has been present in the body for an extended period of time without any successful treatment
agar plate technique	a method of using nutrient agar in order to grow colonies of micro- organisms
analytical studies	epidemiological studies that collect data that can be statistically analysed to try to determine the cause of a disease
anthrax bacillus	the bacterium that causes the disease, anthrax

antibodies	protein molecules produced by plasma cells that are specific to a particular antigen and will bind with that antigen
antibody-mediated (humoral) immunity	immune response that involves that action of the B cells to defend the body against invading antigens
antigen	any molecule that triggers an immune response
antigen-antibody complex	formed when a specific antibody attaches to its matching antigen; deactivates the antigen
bacteria	a single-celled prokaryotic organism that has a cell wall

B cells	lymphocytes that are involved in the immune response; produced and mature in the bone marrow
broad-spectrum antibiotics	antibiotics that act on a wide range of bacteria and are used when the identity of the bacteria causing the infection not known
case control studies	epidemiological studies that compare people with the disease to people without the disease and look for differences in exposure to the possible cause of the disease
cell-mediated immunity	the immune response that involves the action of T cells to defend the body against invading antigens
chemical barriers	chemicals produced by the body to prevent the entry of pathogens

cilia	tiny, hair-like structures lining the repertory tract that beat in an upward direction
clonal selection theory	B cells and T cells for all possible antigens are already present in a very small amounts in the immune system; when an antigen is present in the body, the B cell and the T cell specific to that antigen is activated, then cloned, and the antigen is destroyed
cohort studies	epidemiological studies that study two groups of people who are free of the disease over an extended period of time; one group is exposed to the potential cause of the disease and the other is not
complement proteins	the proteins that make up the complement system
complement system	a group of 20 proteins that activate the non-specific defence adaptations such as phagocytosis

Creutzfeldt-Jacob disease (CJD)	a disease caused by a prion; affects the brain and is always fatal
cystic fibrosis	a non-infectious disease that is caused by a mutation of the cystic fibrosis transmembrane conductance regulator (CFTR) gener
cytokines	chemicals secreted by cells of the immune system to control the actions of other cells
cytotoxic T cells (Tc cells)	T cells, within specific antigen receptors, that move to infected cells and release chemicals that destroy the infected cells
descriptive study	a type of epidemiological study that describes many different aspects associated with the disease