3) Students learn to:

c) Identify the role of antibiotics in the management of infectious disease

3) Students:

b) Gather and process information to trace the historical development of our understanding of the cause and prevention of malaria

c) Identify data sources, gather process and analyse information from secondary sources to describe one named infectious disease in terms of its cause, transmission, host response, major symptoms, treatment, prevention, control

d) Process information from secondary sources to discuss problems relating to antibiotic resistance

4) Students learn to:

a) Identify defence barriers to prevent entry of pathogens in humans: skin, mucous membranes, cilia, chemical barriers, other body secretions

b) Identify antigens as molecules that trigger the immune response

c) Explain why organ transplants should trigger an immune response

d) Identify defence adaptations, including: inflammation response, phagocytosis, lymph system, cell death to seal of pathogen

5) Students learn to:

b) Describe and explain the immune response in the human body in terms of:

- interaction between B and T lymphocytes

- the mechanisms that allow interaction between B and T lymphocytes
- the range of T lymphocyte types and the difference in their roles

c) Outline the way in which vaccinations prevent infection

d) Outline the reasons for the suppression of the immune response in organ transplant patients

5) Students:

a) Process, analyse and present information from secondary sources to evaluate the effectiveness of vaccination programs in preventing the spread and occurrence of once common diseases, including smallpox, diphtheria and polio

6) Students learn to:

a) Identify and describe the main features of epidemiology using lung cancer as an example

b) Identify causes of non-infectious disease using an example from each of the following categories: inherited disease, nutritional deficiencies, environmental diseases

6) Students:

a) Gather, process, and analyse information to identify the cause and effect relationship of smoking and lung cancer

b) Identify data sources, plan and perform a first-hand investigation or gather information from secondary sources to analyse and present information about the occurrence, symptoms, cause, treatment/management of a named non-infectious disease