CO-ORDINATION, REPRODUCTION & DISEASE.

Goals.

The specific goals of this unit are:

- Appreciate the similarities in some basic functions of all living things
- Understand basic anatomy and physiological processes in humans and other living things
- Appreciating how differences in organisms’ structure and function suit them to their environment and “lifestyle”
- Understand the inter-relationship between the different systems in humans and other organisms
- Demonstrate depth and breadth of knowledge of the immune system and disease.
- Critically research, analyse, evaluate and synthesise information from a variety of sources, including their own work, the work of their peers and internet sources.
- Appreciate the role and implications of science and medicine in the wider community – environmental, social, political and economic.

Content.

- Infection and disease
  - Pathogens including bacteria, viruses, protozoa, fungi, prions, parasites
  - Defence mechanisms
  - The immune systems of mammals
  - Human disorders and diseases
  - Treatments and prevention of disease
- Reproduction
  - Meiosis
  - Mammalian reproduction
  - Reproductive strategies in other animal groups
  - Reproduction in flowering plants and other plant groups
- Detecting and responding to change
  - Nervous and sensory systems in mammals and other animals
  - Endocrine systems in animals and hormonal responses and plants