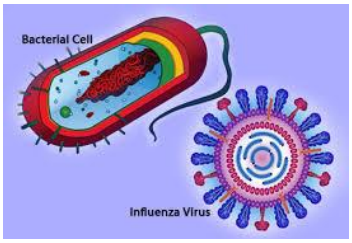
**Unit Overview – B3 infection and response**




**You will learn about:**

- How diseases are transmitted and treated.
- How new drugs are developed.

**You will be able to:**

- Carry out procedures to test how bacteria are tested within a Lab environment.

| **Key learning points** | |
|---|---|
| Communicable diseases | |
| How to culture microbes | |
| Malaria | |
| Immunity | |
| Vaccinations | |
| Antibiotics and pain relief | |
| Drug development | |

**Links to other subjects:**

SMSC:

- Evaluate risks both in practical science and the wider social context, including perception of risk in relation to data and consequences.
- Appreciate the power and limitations of science and consider any ethical issues which may arise.
- Explain every day and technological applications of science. Evaluate and make decisions based on the evaluation of evidence and arguments.

Literacy:

- Communicating the scientific rationale for investigations, methods used, findings and reasoned conclusions through paper-based and electronic reports and presentations using verbal, diagrammatic, graphical, numerical and symbolic forms.
- Use scientific vocabulary, terminology and definitions.

Numeracy

- Translate information between graphical and numeric form.
- Plot two variables from experimental or other data.

**Key Words**

Communicable, depression, immune system, mental health, non-communicable, causal mechanism, risk factor, benign, carcinogen, malignant, tumour, bias, correlation, trend, Ebola, epidemic, pandemic, pathogen, protest, antiretroviral drug, vaccination, diarrhoea, gonorrhoea, salmonella, mulch, pruning, spores, vector, cilia, goblet cells, sebaceous glands, antibody, antitoxin, immunity, lymphocyte, phagocyte, antiviral, aspirin, opiates, penicillin, immunity, vaccination, vaccine, dose, efficacy, placebo