

## Year 11 - Biology

Year 11 biology is where students begin to refine their understanding of the biology themes they have studied in their high school career, and further extend and challenge themselves with the most difficult concepts in the GCSE course

The work they complete through their five year journey will allow students to leave Rastrick High school as scientifically literate members of society.

| Knowledge overview | Topic 1  | Topic 2  | Topic 3  |
|--------------------|--|--|--|
| Topic              | Homeostasis and response   | Inheritance and variation  | Theories of evolution  |
| Theme              | Organisms 6  | Genes and Evolution 3  | Genes and Evolution 4  |
| Overview           | In this topic students will consider how the human body maintains control of certain factors such as temperature and blood sugar. Students will sequence the stages in the nervous system and explain how hormones can communicate messages in the human body. | In this topic students will look at genetic inheritance and how it occurs. Students will use models and established techniques to demonstrate and communicate ideas about inheritance. | In this topic students will explore the theory of evolution and critique the evidence put forward to support it. Students will apply their understanding of evolution and changing ecosystems to explain why organisms may become extinct. |