

Our  
Values



Pursuit  
of Excellence



Value  
our People



High Quality  
Learning  
Environment



Achievement  
for all



Extending the  
Boundaries  
of Learning

CMAT | Cambridge Meridian  
Academies Trust

## Key Stage 5 Biology

### Year 12



### Curriculum aims

Our curriculum is built upon the AQA specification. It allows students to develop essential knowledge and understanding of biological principles. They will develop and demonstrate an appreciation of the skills, knowledge and understanding of scientific methods. To develop competence and confidence in a variety of practical, mathematical and problem-solving skills. Students will understand how society makes decisions about scientific issues and how the sciences contribute to the success of the economy and society.

### Curriculum content

#### AQA A-Level Specification:

<https://www.aqa.org.uk/subjects/science/as-and-a-level/biology-7401-7402>

Topics include biological molecules, cells, organisms exchanging substances with their environment, genetic information, variation and relationships between organisms

### Curriculum Delivery

There will be eight taught hours per fortnight in the department split between 2 teachers. Lessons will be based on extending thinking with stretch & challenge tasks, after pre-lesson reading as flipped learning. This allows more time for exam practice. Students carry out required practicals which will allow them to achieve a practical endorsement alongside their A level grade. .

### Year 13



In year 13, the curriculum aims develop year 12 aims and take students to a greater depth of understanding.

#### AQA A-Level Specification:

<https://www.aqa.org.uk/subjects/science/as-and-a-level/biology-7401-7402> topics include energy transfers in and between organisms, organisms respond to changes in their internal and external environments, genetics, populations, evolution and ecosystems and the control of gene expression

There will be a mix of learning styles incorporated into the curriculum modelling, worksheets, presentations, written notes and mind maps. There will be plenty of opportunities for extra exam practice and essay writing. Students will have the opportunity by examination to become members of the Institute of Biology.