Subject | Biology  
Subject Leader: | Dr Andrew Bailey  
email: | abailey@kingedwardvi.bham.sch.uk  

Year 10  

<table>
<thead>
<tr>
<th>Key Learning Constructs to be developed over the academic year</th>
<th>Scheme of Learning</th>
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<td>Autumn Term</td>
<td>Spring Term</td>
<td>Summer Term</td>
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| Developing organ systems  
Enzymes  
The circulatory system  
Cell division  
Photosynthesis  
Respiration  
Energy transfers  
DNA & reproduction | 4.2.3.2 Plant organ systems  
4.2.2.1 Enzymes  
4.2.2.2 The circulatory system  
4.1.2 Cell division | 4.1.2 Cell division extension  
4.4.2 Respiration  
4.4.1 Photosynthesis  
4.7.4 Energy transfers | 4.6.1.4 DNA & the genome  
4.6.1 Reproduction |

### Assessment pieces

- End of Key Concept assessment

### Outside the taught curriculum

- The Birmingham Wildlife Conservation Park and the Botanic Gardens make a pleasant half-day out and will expand your daughter’s experience of the natural world.
- Growing things is fun! Even windowsill pots give girls the chance to experience the thrill of seeing a plant grow and thrive under their care.
- Keeping a pet is a great opportunity for your daughter to grow in understanding of life processes.
- Thinktank, Birmingham’s science museum has many exhibits related to Biology and its applications.
- There is lots of Biology on television: any of the Attenborough programmes, Chanel 4’s Inside Nature’s Giants, some of the Horizon programmes.
- Radio 4’s “Material World” is great too – and available as a podcast!
### Curriculum and Assessment Map 2019-2020

**Suggested reading**

- Scool
- GCSE Bitesize
- The Society of Biology is the professional body for Biologists – they offer student membership too!
- The BBC Science website
- The BBC Nature website
- Also try their news section
- Biology-themed TED talks