

# KEVI CAMP HILL SCHOOL FOR GIRLS

## BIOLOGY

### CURRICULUM MAP (YEARS 7-13)



**KING EDWARD VI  
CAMP HILL  
SCHOOL FOR GIRLS**

*Educational excellence for our City*

|                    | AUTUMN TERM                                                                                                                                                    | SPRING TERM                                                                                                                                                                                     | SUMMER TERM                                                                                                                                                     |
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| <b>YEAR<br/>7</b>  | <b>Biology is taught as part of KS3 Science</b><br>Biology content: <ul style="list-style-type: none"> <li>Cells and organization</li> <li>Movement</li> </ul> | <b>Biology is taught as part of KS3 Science</b><br>Biology content: <ul style="list-style-type: none"> <li>Variation</li> <li>Human reproduction</li> </ul>                                     | <b>Biology is taught as part of KS3 Science</b><br>Biology content: <ul style="list-style-type: none"> <li>Ecology</li> <li>Plant reproduction</li> </ul>       |
| <b>YEAR<br/>8</b>  | <b>Biology is taught as part of KS3 Science</b><br>Biology content: <ul style="list-style-type: none"> <li>Digestion</li> <li>Breathing</li> </ul>             | <b>Biology is taught as part of KS3 Science</b><br>Biology content: <ul style="list-style-type: none"> <li>Respiration</li> <li>Photosynthesis</li> </ul>                                       | <b>Biology is taught as part of KS3 Science</b><br>Biology content: <ul style="list-style-type: none"> <li>Evolution</li> <li>Inheritance</li> </ul>            |
| <b>YEAR<br/>9</b>  | <ul style="list-style-type: none"> <li>Cell structure and microscopes</li> <li>Cell division, Mitosis and stem cells</li> </ul>                                | <ul style="list-style-type: none"> <li>Diffusion and exchange surfaces</li> <li>Osmosis and active transport</li> </ul>                                                                         | <ul style="list-style-type: none"> <li>Digestion and enzymes</li> <li>Heart and circulation</li> <li>Lungs and breathing</li> </ul>                             |
| <b>YEAR<br/>10</b> | <ul style="list-style-type: none"> <li>Recap of the Heart and circulation</li> <li>Non-communicable disease</li> <li>Plant transport</li> </ul>                | <ul style="list-style-type: none"> <li>Infection and response</li> <li>Communicable disease</li> <li>Culturing micro-organisms</li> <li>Monoclonal antibodies</li> <li>Plant disease</li> </ul> | <ul style="list-style-type: none"> <li>Bioenergetics: Photosynthesis</li> <li>Respiration and exercise</li> <li>Ecology and investigation techniques</li> </ul> |
| <b>YEAR<br/>11</b> | <ul style="list-style-type: none"> <li>Ecology: energy transfers, nutrient cycles</li> <li>Nervous system</li> <li>Homeostasis and plant hormones</li> </ul>   | <ul style="list-style-type: none"> <li>DNA and protein synthesis</li> <li>Meiosis</li> <li>Inheritance</li> <li>Evolution, natural selection, speciation</li> </ul>                             | <ul style="list-style-type: none"> <li>DNA technology</li> <li>Classification</li> <li>Final exams</li> </ul>                                                   |
| <b>YEAR<br/>12</b> | <ul style="list-style-type: none"> <li>Biological Molecules</li> <li>Enzymes</li> <li>Cell Structure</li> </ul>                                                | <ul style="list-style-type: none"> <li>DNA</li> <li>Protein synthesis</li> <li>Variation</li> </ul>                                                                                             | <ul style="list-style-type: none"> <li>Populations in ecosystems</li> <li>Ecological Techniques</li> <li>Energy Transfer in ecosystems</li> </ul>               |

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|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
|                    | <ul style="list-style-type: none"> <li>• Microscopes</li> <li>• Cell transportation</li> <li>• Immunity</li> <li>• Gaseous Exchange</li> </ul>                                                 | <ul style="list-style-type: none"> <li>• Lungs and disease</li> <li>• Genetic diversity, Natural selection and Classification</li> <li>• Heart and Circulation</li> <li>• Plant transport</li> </ul> | <ul style="list-style-type: none"> <li>• Nutrient Cycles</li> </ul> |
| <b>YEAR<br/>13</b> | <ul style="list-style-type: none"> <li>• Applications of DNA Technology</li> <li>• Ecosystems</li> <li>• Succession</li> <li>• Inheritance and selection</li> <li>• Gene Regulation</li> </ul> | <ul style="list-style-type: none"> <li>• Photosynthesis</li> <li>• Respiration</li> <li>• Stimulus and Response</li> <li>• Neurons and Muscles</li> <li>• Homeostasis</li> </ul>                     |                                                                     |