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**Subject: Science**

**Year: Y11**

**Term: Spring 1**

**Greenwood School Curriculum Summary**

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| **Lesson name** | **Lesson outline** | **Online link(s)**  | **Other Resources** | **SMSC** |
| Cells | Light and electron microscopes allow us to see inside cells. Plant, animal and bacterial cells have smaller components each with a specific function. | <https://www.bbc.co.uk/bitesize/guides/zg9mk2p/revision/1><https://www.bbc.co.uk/bitesize/guides/zg9mk2p/revision/2><https://www.bbc.co.uk/bitesize/guides/zg9mk2p/revision/3><https://www.bbc.co.uk/bitesize/guides/zg9mk2p/revision/4><https://www.bbc.co.uk/bitesize/guides/zg9mk2p/revision/5><https://www.bbc.co.uk/bitesize/guides/zg9mk2p/revision/6><https://www.bbc.co.uk/bitesize/guides/zg9mk2p/revision/7><https://www.bbc.co.uk/bitesize/guides/zg9mk2p/revision/8><https://www.bbc.co.uk/bitesize/guides/zg9mk2p/revision/9><https://www.bbc.co.uk/bitesize/guides/zg9mk2p/revision/10> |  |  |
| Enzymes | Enzymes are biological catalysts which speed up reactions. They are specific for their substrate. The lock and key hypothesis models this. Enzymes are denatured at extremes of temperature and pH. | <https://www.bbc.co.uk/bitesize/guides/zwxv6yc/revision/1><https://www.bbc.co.uk/bitesize/guides/zwxv6yc/revision/2><https://www.bbc.co.uk/bitesize/guides/zwxv6yc/revision/3><https://www.bbc.co.uk/bitesize/guides/zwxv6yc/revision/4>  |  | H |
| Transport in Cells | Diffusion is the movement of particles from a high to lower concentration. Osmosis is the diffusion of water across a membrane. Active transport moves particles from low to higher concentration. | <https://www.bbc.co.uk/bitesize/guides/z9myxfr/revision/1><https://www.bbc.co.uk/bitesize/guides/z9myxfr/revision/2><https://www.bbc.co.uk/bitesize/guides/z9myxfr/revision/3><https://www.bbc.co.uk/bitesize/guides/z9myxfr/revision/4><https://www.bbc.co.uk/bitesize/guides/z9myxfr/revision/5><https://www.bbc.co.uk/bitesize/guides/z9myxfr/revision/6><https://www.bbc.co.uk/bitesize/guides/z9myxfr/revision/7><https://www.bbc.co.uk/bitesize/guides/z9myxfr/revision/8><https://www.bbc.co.uk/bitesize/guides/z9myxfr/revision/9> |  | So |
| Sample exam questions | Understanding how to approach exam questions helps to boost exam performance. Question types will include multiple choice, structured, mathematical and practical questions. | <https://www.bbc.co.uk/bitesize/guides/zwm3tv4/revision/1><https://www.bbc.co.uk/bitesize/guides/zwm3tv4/revision/2><https://www.bbc.co.uk/bitesize/guides/zwm3tv4/revision/3><https://www.bbc.co.uk/bitesize/guides/zwm3tv4/revision/4><https://www.bbc.co.uk/bitesize/guides/zwm3tv4/revision/5><https://www.bbc.co.uk/bitesize/guides/zwm3tv4/revision/6> |  |  |