BIOLOGY

YEAR 9

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| | CAREERS LINKS | | | |
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| Cell Structure Plant, animal, bacterial cells, microscopes, specialised cells. | | Prior Learning Students have studied basic cell structure and organisation during year 7. | Microbiologist, research scientist, laboratory technician, teacher, doctor, dentist, nurse, biomedical | |
| | researcher, immunologist, phlebotomist, vet, | | | |
| Cell Transport Diffusion, Osmosis, Active transport. | | Prior Learning Students have studied diffusion only during year 7 particle model but lacking the biological context. | lied diffusion only during year keeper, marine biologist | |
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| Enzymes & Digestion Enzymes, factors affecting enzyme action, digestion, food tests. | | Prior Learning Students have studied the human digestive system and enzymes in year 8 digestion and breathing. | CHARACTER LINKS Motivation, resilience and teamwork (performance | |
| | virtues). Confidence and | | | |
| Breathing & Respiration Lung structure, gas exchange, aerobic and anaerobic respiration. | | Prior Learning Students have studied the basics of gas exchange and breathing in year 8, along with the basics of respiration. | determination Listening, critical thinking and problem solving (intellectual virtues). | |
| | Consideration and construction of moral and | | | |
| Breathing & Respiration Respiration in plants. | Plant Biology Plant organs and tissues, leaf structures. | Prior Learning Students have studied the basics of gas exchange and breathing in year 8 along with the basics of respiration. Plant organisation in year 7 | ethical arguments in science (moral virtues). | |
| | | & specialised cells in year 7. | KEY ASSESSMENT DATES | |
| | | Summative and synoptic testing in October, February | | |
| SUMMER 2 Plant Biology Xylem, phloem, stomata, transpiration. | | Prior Learning Students have studied plant organisation & specialised cells in year 7. | and May. | |