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| **September-October Half Term** | |
| **Year 10 Exam Board and Specification: Biology: AQA 8461**  **Trilogy AQA 8464**  **Those doing separate sciences and the those doing trilogy will cover the same content but to different depths** | **Year 11 Exam Board and Specification: Biology: AQA 4401**  **Additional Science AQA 4408** |
| **Organisation of body systems** including the digestive system and enzymes, circulatory system, respiratory system and plant systems. | **Triple: Exchange of materials:** the structure of the lungs and gills and how leaf structure in plants allows for exchange of gases.  **Transport:** the heart and circulatory system plant transport systems  **Additional: B2.4 Organisms and the environment** What affects where an organism lives and methods to assess numbers of organisms in an environment  **B2.5 Proteins**: The digestive system and enzymes involved in the digestion of food |
| **Assessments/exams**  End of topic test, approx. half an hour to be sat in class. | **Assessments/exams**  End of topic tests approx. half an hour to be sat in class. |
| **Enrichment activities** | **Enrichment Activities** |
| **November-December Half Term** | |
| **Year 10** | **Year 11** |
| **Infection and response** including how pathogens cause disease, how white blood cells fight disease and how we can use medicines, antibiotics and vaccinations to combat disease. | **Triple: Transport:** the heart and circulatory system plant transport systems  **Homeostasis:** how the body controls temperature, blood sugar levels, water levels, and salt levels. The function of the kidneys and treatments for kidney failure.  **Additional: B2.7 Respiration:** How the body gets the energy it needs through the processes of aerobic and anaerobic respiration. The effect of exercise on the body |
| **Assessments/exams** | **Assessments/exams** |
| **Enrichment activities** | **Enrichment activities** |
| **January-February Half Term** | |
| **Year 10** | **Year 11** |
| **Bioenergetics:** respiration, photosynthesis, protein synthesis, metabolism | **Triple: Human impact on the environment:** global warming and the greenhouse effect including destruction of habitat and peat bogs. Alternative fuels. Food production including issues around intensive farming and overfishing  **Additional: B2.7 Cell division and inheritance**: How cells divide by mitosis and meiosis, the inheritance of characteristics including genetic diseases. |
| **Assessments/exams**  End of topic test, approx. half an hour to be sat in class. | **Assessments/exams**  Controlled assessment to be completed in class; 2 papers to assess students planning skills and analysis skills before and after the completion of an investigation. |
| **Enrichment activities** | **Enrichment activities** |
| **February-April Half Term** | |
| **Year 10** | **Year 11** |
| **Bioenergetics:** respiration, photosynthesis, protein synthesis, metabolism | **Triple: Human impact on the environment:** global warming and the greenhouse effect including destruction of habitat and peat bogs. Alternative fuels. Food production including issues around intensive farming and overfishing.  **Additional: B2.8 Speciation**. How new species form through natural selection. Extinction and the formation of fossils |
| **Assessments/exams**  End of topic test, approx. half an hour to be sat in class. | **Assessments/exams** |
| **Enrichment Activities** | **Enrichment Activities** |
| **April-May Half term** | |
| **Year 10** | **Year 11** |
| **Homeostasis:** how the body controls temperature, blood sugar levels, water levels, and salt levels. The function of the kidneys and treatments for kidney failure. | **Triple: Revision of B1, B2 and B3 components**  **Additional: Revision of B1 and B2 components** |
| **Assessments/exams**  End of topic test, approx. half an hour to be sat in class. | **Assessments/exams** |
| **Enrichment Activities** | **Enrichment Activities** |
| **June-July Half Term** | |
| **Year 10** | **Year 11** |
| **Homeostasis:** how the body controls temperature, blood sugar levels, water levels, and salt levels. The function of the kidneys and treatments for kidney failure.  **Revision for year 10 mock exams** |  |
| **Assessments/exams**  Year 10 exams | **Assessments/exams** |
| **Enrichment Activities** | **Enrichment Activities** |