

The Science department at Wexham School
Science Curriculum Map – Key stage 5 Applied Science

Term	Year 12	Year 13
Autumn 1	Unit 1- Physics Electricity and circuits, Dynamics Unit 1- Biology Cell structure, Transport mechanisms, The heart.	Unit 4- The human body The digestive system and diet, Musculoskeletal system and movement, Oxygen transport in blood
Autumn 2	Unit 1- Biology Homeostasis, Breathing and cellular respiration, Photosynthesis and Food chain productivity. Unit 1- Chemistry Atomic structure, The periodic table, Amount of substance	Unit 4- The Human body Structure and function of nervous system and brain, nerve impulse Unit 5- Investigating science Preparation, carry out and investigation Analyse results and draw conclusions Present to audience
Spring 1	Unit 1- Chemistry Bonding and structure, Enthalpy changes, Useful energy and efficiency, Unit 2- Applied techniques in biology practical and portfolio building Light-dependant reaction in photosynthesis (hill reaction), Rate of respiration	Unit 5- Investigating science Preparation, carry out and investigation Analyse results and draw conclusions Present to audience Unit 6- Microbiology Grouping of microorganisms, Aseptic techniques to cultivate microorganisms, factors affecting growth of microorganisms
Spring 2	Unit 2- Applied techniques in physics practical and portfolio building Resistivity, Specific heat capacity Unit 2- Applied techniques in chemistry practical and portfolio building Volumetric analysis, Colorimetric analysis	Unit 6- Use of microorganisms in biotechnical industries Practical assessment Revision of unit 4 for exam.
Summer 1	Complete portfolios Unit 3-Topical scientific issues obtained from media Public perception of science and influence of media	
Summer 2	Unit 3- Ethical, moral, commercial, environmental, political and social issues in scientific advances Role of science personnel in the science industry. Revision of unit 1+3f or exam	

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