BIOLOGY LEARNING JOURNEY Churchmead School Understanding Writing Applying maths to the Drawing Evaluation of Assessing impact of Describe patterns scientific concepts conclusions scientific concepts scientific concepts **Understanding and Applying Scientific Skills** Understanding IDEAL Drawing graphs and Evaluating Analysis of Modelling scientific relationships between Identify, describe, analysing graphical secondary data data and concepts Assessment science and society explain, apply, link investigations Sampling-Predator Quadrats and hot and cold Variation **Biotic factors** Final **Revision Ecosystems and material cycles GCSE** Disease exams Sex Distribution Communities inheritance Carbon and Food chains Aerobic of organisms nitrogen and webs respiration Punnett Squares Transpiration Respiration Metabolism and the Liver Urinary Reflex The Nervous Menstrual cycle Diabetes System Response to System exercise DNA structure Respiration and YEAR Anaerobic **Nervous System** Respiration **Hormonal Control** Photosynthesis The Human Aerobic Genome Project Endocrine Respiration Fertility Homeostasis Factors affecting Response 51 The Rate of system **Photosynthesis** Photosynthesis photosynthesis **YEAR** Percentage Structure od a The Heart Meiosis Healthy and rate Cell cycle change Cell transport Health and Cells and Control **Organisation** Enzyme activity **Cell Division Disease** Microscopy Communicable Enzymes Non Disease The alveoli The Blood and Mitosis Drug Exchange in digestion Communicable of Sub and gas the Blood nervous Specialised Development **Prokaryotes** • and Eukaryotes • **YEAR** Natural Plant Food chains Inheritance selection Food and webs Ecosystems Variation Healthy diet Alcohol Respiration tests Adaptation and Health and Lifestyle **Ecosystem Processes** Inheritance **YEAR** CSI techniques Bacteria and Disruption Competition enzymes in Drugs & Continuous and Extinction Apple to food **Nutrients** Photosynthesis Chemosynthesis Anaerobic Plant Smoking and digestion discontinuous chains distribution Adaptation genetics biotechnology The Fertilisation Flowers and menstrual Levels of Movement of Specialised Observing and Movement: Skeleton pollination organisation cycle implantation cells joints **Turning points** medicines **YEAR** extinction Reproduction **Body systems Cells** Seed dispersal Fertilisation and germination Movement: Breathing Adolescence Development Reproductive Cell division Unicellular Plant and exchange Muscles of a fetus systems \odot 'Life in all its fullness' John 10:10. **Body systems** Health and disease PE History Reproduction **PSHE** Data analysis **Mathematics** Health & Lifestyle **Photosynthesis** Chemistry **PSHE** C, N and H₂O cycle Geography Chemistry Diffusion & Osmosis