Future careers in NHS

CELL ORGANISATION Plant tissues Organs and systems

States of matter

BONDING. STRUCTURE AND

THE PROPERTIES OF MATTER

Future careers with AWE

Careers in Chemistry including Chemical engineer, Forensic scientist, Food scientist

Careers in Biology including Marine engineer, Climate scientist, Botanist

Careers in Physics including Laser physicist, Astronaut, Acoustic engineer

SEPARATE SCIENCE **CURRICULUM**

ROAD MAP TO

ECOLOGY **INHERITANCE & EVOLUTION** Biodiversity DNA The impact of environmental Classification of living change organisms BIOLOGY **Evolution and variation** The effect of human BIOLOGY Key ideas in Biology Genetic engineering interaction on ecosystems Key ideas in Biology Life processes Life processes Ecosystems Zone 11 starts Ecosystems Photosynthesis and **ORGANIC CHEMISTRY CHEMISTRY OF THE** Photosynthesis and respiration Hydrocarbons **ATMOSPHERE** BIOLOGY respiration Evolution Fractional Distillation Evolution of the Earth's Responsive revision of the Evolution Uses and Cracking of Crude atmosphere Biology curriculum CHEMISTRY Oil Carbon cycle YEAR CHEMISTRY Key Ideas in Chemistry Greenhouse gases and CHEMISTRY Key Ideas in Chemistry Atoms and elements CHEMICAL ANALYSIS climate change Responsive revision of the Atoms and elements Periodic table Purity of substances and Chemistry curriculum Periodic table Bonding and Chemical USING RESOURCES chromatography Bonding and Chemical Reactions Tests for gases, cations and Finite and Renewable PHYSICS Reactions Conservation of energy in anions resources Responsive revision of the Conservation of energy in reactions Obtaining potable water Physics curriculum reactions Waste water treatment FORCES PHYSICS Contact and non contact Life cycle assessment and PHYSICS Magnets and Electromagnets forces recycling Solar system Permanent and Induced Resultant forces Satellites and the stability of magnets WAVES Newtons Laws orbital motions The Motor Effect Waves in air, fluids and solids Speed and velocity equations Electric Motors Reaction time required The Electromagnetic practical spectrum Momentum Reflection and refraction of waves **INFECTION & RESPONSE INHERITANCE, VARIATION &** Communicable diseases EVOLUTION The Immune system **Evolution and variation** Plant diseases HOMEOSTASIS Plant Defences The human nervous system BIOENERGETICS HOMEOSTASIS **INHERITANCE & VARIATION ORGANIC CHEMISTRY** Photosynthesis The brain The human nervous system, Classification of living Polymers and carbon QUANTITATIVE CHEMISTRY Respiration Controlling blood sugar level the brain, controlling blood organisms compounds as fuels and **Chemical measurements** Metabolism The menstrual cycle sugar level, the menstrual Genetic engineering feedstock Conservation of mass Controlling fertility cycle and controlling fertility Selective breeding The quantitative YEAR **CHEMICAL CHANGES** Kidnevs FORCES interpretation of chemical Reactivity of metals ENERGY CHANGES **RATE & EXTENT OF** Pressure and pressure equations Reactions of acids ENERGY CHANGES Exothermic and endothermic CHEMICAL CHANGE differences in fluids Use of amount of substances Electrolysis Exothermic and endothermic Rates of reactions reactions Conservation of momentum Yield and atom economy of reactions Chemical cells Reversible reactions chemical reactions ATOMIC STRUCTURE Chemical cells and fuel cells Fuel cells Dynamic equilibrium Using concentrations of Types of radiation solutions FORCES Zone 10 starts Radiation hazards FORCES FORCES Amounts of gases Uses of radioactive emissions Interactions Moments Interactions Half Life Free body force diagrams Newton's Laws Levers and Gears PARTICLE MODEL OF Parallelogram of forces MATTER Internal energy Density Pressure **CELL BIOLOGY** Cell division Stem cells **CELL BIOLOGY** ATOMIC STRUCTURE

