

## ***A\* Star Teachers – Science Equivalency syllabus guide***

<p><b>Module One - The Human Body: Action and Control</b>          Organs and the Digestive System          Digestive Enzymes          Products of the Digestive System          Functions of the Blood          Neurones and the Reflex Arc          The Eye          Drugs          Homeostasis          Kidneys          Skin          Skin and Temperature</p>	<p><b>Module Two - Inheritance and Survival</b>          Mitosis and Meiosis          Fertilisation          Male and Female Hormones          Genes and Variation          Mutations          Inheritance          Genetic Engineering          Survival          Evolution          Natural and Artificial Selection          Our Effect on the Environment          Pollution and Acid Rain</p>
<p><b>Module Three - Chemical Patterns</b>          The Structure of the Atom          The Periodic Table          Electronic Configurations          Groups of Elements          The Halogens          Rates of Reaction          Collision Theory          Experiments on Rates of Reaction          Catalysts and Enzymes</p>	<p><b>Module Four - Chemistry in Action</b>          Crude Oil          Burning Fuel          Cracking Hydrocarbons          Alkanes          Alkenes V          Polymerisation          Enzymes          Types of Chemical Reaction          Neutralisation          Limestone</p>
<p><b>Module Five -Energy and Electricity</b>          Circuits          Current in Circuits          Voltage, Current and Resistance          Mains Electricity          Fuses          Safety and Heating          Cost of Electricity          Generators and Transformers          Generating Electricity          Low Energy Appliances and Insulation</p>	<p><b>Module Six- Waves, Atoms and Space</b>          Wave Motion          Electromagnetic Waves          Refraction          Analogue and Digital Signals          Sound Waves          Ultrasound          Gravity and Orbits          Galaxies          The Life Cycle of a Star          Big Bang vs. Steady State          Atomic Structure          Radiation</p>