Physics Learning Journey Physics at Moseley has a strong emphasis on the applying knowledge to the real world and how science works. The applications and implications of what we learn permeate throughout the course content. Understanding and Applying Scientific Skills Risk Assessing impact of IDEAL Writing methods Assessment scientific concepts Understanding Identify, describe, Describe Understanding variables relationships explain, ap<mark>pl</mark>y, link Analysis of secondary data between science Modelling scientific concepts Drawing graphs and analysing graphical data Applying maths to the scientific concepts Drawing conclusions Exam & Consolidation and revision Post - 16 Dark mass and dark matter Destination Evidence for the big bang Red-shift |||||||| The lifecycle of Satellites Describe National grid the forces How a Using motors Using Flemings Investigate Explore our generator and magnets left hand rule transformers Generator exert solar system generates magnetic fields effect Stars and **ELECTROMAGNETISM MAGNETISM AND** nuclear fusion The lifecycle of Calculating Compare Describe large stars What is our Braking & magnetic Flux permanent and magnetic fields stopping galaxy? distance Uses for generators Speed, velocity and acceleration fluids & air Longitudinal & Static ele Reflection Turning Work Transverse waves How we electromagneticcalculations forces & see colour spectrum Refraction Wiring a plug 1ains lectricity **WAVES** Elastic & Current inelastic Potential materials What is black Sound & Graphs Convex and **Properties** Work & energy National Grid body radiation **SONAR** transfers Describe resistance Calculate Recognise -Compare and explain internal How we keep How do Parallel circuit and Explain how the@T Gravitationakinetic symbols Energy specific safe using Define isotopes circuits contrast atoms change atomic model Potential fission and radioactive and ionisation when they has changed resources Energy decay? Series over time PARTICLE circuits MODEL OF MATTER difference Conservation What is Describe size Define and Describe and Spring What is Calculating and background calculate half and investigate how to ionising Why are energy Insulation radiation? What is current structure of change gas pressure radiation? some atoms **↑**changes

