## **ICT Curriculum Map - KS3-KS4** Information Technology Systems • Graphic design • Social Sixth Form media • Database development • Web development • Data modelling. The Online World Legal, moral Exam How data and and ethical Preparation information is Risk analyst • Data scientist • Database developer • Next impacts Careers Spreadsheet developer • Front-end developer • Project transferred ☐ Mock Exams manager Network security engineer • Software developer Steps □Data risks Intervention Support • Software engineer • Systems analyst • UX designer □ Data protection □ Fitness for Walkthroughs □Impacts purpose Analysis • Attention to Detail • Communication • Problem **Skills** □Error checking solving • Patience • Logical Thinking ■Networks and connectivity Programming is the key to the future. Further learning below: Mock Exams, Revision Super-curricular links Hour of Code • Isaac computer science • Code.org and targeted support ICT to meet the needs of individuals and End Creating an automated Planning, creating and organisations ssessmei document testing a database ☐ Planning the document of. □Creating and merging the □ICT hardware □Planning a database Yea document with the database □ ICT software □ Creating a database with tables SCAN ME □ Evaluating the document □ICT services queries, forms, reports ☐Testing and evaluation Revision and Using different programs and targeted support Planning, media to create a cohesive project Academic Academic creating and Reflection Reflection testing a **Advertising Data Representation Database Development** spreadsheet and Logic creating images **Project** □ Microsoft access □ Conversions between ☐ Graphic design □ Logo design □ Planning a spreadsheet Table creation binary and denary □ Video editing □ Creating a spreadsheet ☐ Creating a query □ Logo creation □ Audio editina Conversions between □ Create and format a □ Logo evaluation ☐ Testing and evaluation □ Exploring media hexadecimal and denary report ☐ Conversions between processes binary and hexadecimal ☐ Binary addition Academic Reflection Unit assessments & Academic Scan here Reflections throughout Managing for careers Data **Python Programming** Reflection Project □ Advanced Al and Machine **Animation in Understanding Spreadsheet** programming concepts Learning Blender Computers Modelling Python programming Create and join What is Artificial ☐ Handling errors Hardware and □ Formatting cells intelligence Computer Programming Functions Casting Data types software □ Data entry Add material and What is Machine How is data Formulas processed (binary) colours learning □ Animate an image Charts Academic Algorithmic Bias What is a CPU Conditional Reflection □ Ethical concerns Ram and ROM Academic formatting Reflection Coding Reflection How do Knowledge Organisers computers and Revision **Programming** work? Academic Reflection in Python Academic Reflection Computational **App Development Spreadsheet** □ Basic programming Thinking and Logic Skills in App Lab concepts ☐ Algorithms Python programming Modelling □ Formatting cells Design an app Decomposition and Handling errors □ Data entry Create an app abstraction ☐ Sequence, selection and Test out the app Problem solving iteration End Charts ☐ Pattern recognition □ Data types Academic Conditional formatting □ Logic gates AND, OR, NOT Reflection Academic Reflection ► Problem Solving Baseline Skills & Unit assessments & Academic We work with our Reflections throughout primary school **Online Safety Programming in** partners to make **Small Basic** sure we get to Computational Thinking **Using Technology Safely** know you and □ Basic programming and Problem Solving you get to know concepts □ Algorithms□ Decomposition and Small basic programming ☐ Staying safe online us and what we Handling errors □ Cyberbullying awareness teach you links up abstraction ☐ Sequence, selection and Computing room rules and follows on Problem solving iteration Using Google Drive from what you □ Data types □ Pattern recognition have learnt Academic Academic already Reflection