## **Computing at Abbey Road** Technology enables us to code, create and connect The Four Elements of Computing Information **Computer Science Digital literacy E-safety Technology Knowledge and Understanding Substantive Knowledge Disciplinary Knowledge** (The procedural skills that are needed to use (The facts, information and vocabulary technology effectively) that are needed to understand Computing) Children show Children use technology Children use technology purposefully and effectively understanding of safely and responsibly. Children show understanding computational thinking and to create, organize, store, Showing an understanding of online safety which is coding concepts when they manipulate and retrieve of the uses of information taught during class get to tinker with digital content. Children use assemblies each half term but technologies outside of programming software and a variety of software on a school. They evaluate digital also through other subject robotics. range of digital devices to content and understand the areas, such as PSHE and RSE. Pupils have time to apply design and create programs, opportunities that digital Whole school online safety what they have learned in systems and content to literacy offers for assemblies are planned by the open exploration with achieve a goal. communication and Computing Leader when block-based code and/or Children learn to analyse collaboration. appropriate. and evaluate data and robotics play. information. **The Skills Our Pupils Will Learn** Information Digital literacy **Computer Science** E-safety **Technology** Word processing Understanding the Understanding that there Developing Internet and the World computational thinking • Using e-mail are benefits and risks to Wide Web skills: decomposition, using the internet Planning and creating Searching online abstraction, pattern Understanding what animations Blogging spotting, algorithm personal information is Creating and using Podcasting design, debugging and Understanding how to spreadsheets · Combining media to evaluating. speak to others online • Creating 3D graphic present information Designing algorithms and Understanding the models Creating wed content building code importance of permission Understanding using HTML/CSS Using and creating when it comes to sharing cryptography computer models and using Digital drawing

information/pictures

Understanding what to

Identifying adults who

Understanding how to act safely and responsibly

wrong

can help

do when something goes

Understanding computer

databases are and why

Understanding what

they are useful

networks