## **AKS Computing and ICT Curriculum Map** Mission Statement: "To create an understanding of, and the ability to apply, the fundamental principles and the key concepts of computing, have an ability to be able create, collect, reuse and alter digital artefacts within the limits of the current legislations, to be aware of how to confidently stay safe online as well as being able to spot online dangers when confronted with them." KS5 Option **KS5 Option** Opportunities **Curriculum Time:** (If selected) 6 Lessons per cycle Computational thinking, algorithms and programming Trip to Quintech IT 2.2 Programming **Algorithms** fundamentals Services 2.3 Producing 2.5 Trip to IT 2.4 Boolean robust **Programming** Schools for logic programs languages Africa **OCR GCSE Computer Science** Curriculum Time: 4 **Curriculum Time:** lessons per cycle 6 lessons per cycle Further details of subject KS4 – To enable all children Computer Science is engaging and practical, can be found in the to develop the necessary subject policy & long term level of skills to exploit ICT plan. at their own level computational terms and devise creative solutions by designing, writing, testing and evaluating programs. Pupils will learn a range of skills that will help them KS4 option develop their core IT skills, **IT User** Opportunities that will enable them to be **OCR GCSE Skills** (If selected) ready for the next part of their Computer educational journey. This will Entry level, Trip to include IT Security, use of the Science Level 1 and Quintech IT **Microsoft Office Suite and KS4 Option- OCR GCSE** Services understanding how IT is used Level 2 within the wider world. **Computer Science** Trip to IT Schools for Africa KS3 Visit Opportunities To meet the requirements of the National Curriculum as (If selected) KS3 fully as possible and enable all children to reach their Year 7 trip to highest possible standards of achievement. Cotswold Using Creating a Wildlife Park Using Creating Using Using Presentation range of Graphics -Presentation Spreadsheets Spreadsheets Graphics Year 8 trip to Software Software Animation History of Computers Digital Using Using Online Museum Presentation Footprints Presentation Threats -Software and phishing Being SMART Software KS3 -Computing Understanding Computer Day Home Computer Encryption Components **Networks** Components Text based **Binary** Coding using Binary Coding in Representation **Numbers Blocks Mastery Key** Python 'ear ear ear **Curriculum Time:** Digital Literacy 3 Lessons Per Cycle 9 Computer KS2 Enrichment Science Opportunity **Curriculum Time:** Coding 1 lesson per cycle] Digibus Information Technology **Activities** Online Use of Safety **Networks** KS2- To enable all children to develop the necessary level of skills to use ICT:.. Purposeful Computer Use of **Basics** Technology Using Software

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