The BIG picture? **OCR Lesson Plan** 'Keywords!' Students are learning the theory element of the course and, Binarv over the past weeks, have Engagement? Image been looking at unit 2.1.3 Pixels **Objectives** exam – Representation of Picture Element Data in Computers. In this Pixels lesson they explore how a Colour Depth computer stores Explain the ٠ Resolution representation of an **Computing Xmas** an image. Metadata Cracker Jokes image as a series of pixels represented in Binary Crossword binary Xmas Pixel art task Afl Differentiation Explain the need for ٠ metadata to be included Students given in the file such as computing Xmas O&A height, width and colour cracker jokes with depth Pupil Record Sheet hidden challenges on (Excel) the back (Each students Discuss the effect of • has a different Filled in worksheets colour depth and challenge based on resolution on the size of Plenary: (Recap ability). an image file Learning Objectives) -Help sheets Pose, Pause, Pounce, Bounce Keywords (Tagxedo) Pose Pause Pounce Learning Episodes Bounce Teacher Led or **Student Led**? Teacher Led or Student Led? Teacher Led or Student Led? **Teacher Led** or Student Led? Teacher to explain 5mins: Students Students to have a go **Teacher** show images on the MetaData followed by a attempt binary board and ask Students to at creating their very short plenary - based on crossword puzzle. own 1-bit and 2-bit art discuss how a computer might the Learning Objectives. work and convert it into interpret the images. Key message: Rebinary. G&T/Higher **Teacher** to ask questions enforce Binary logic and Teacher to explain how a ability to convert their that a Computer only related to the Learning computer converts an image images to Hex and Objectives to guage understands Binary. into binary with help from explain the benefits of understanding some volunteers. converting to Hex.