 Subject Matrix: Computing

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Subject | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| Rec/Nur | Digital literacy  Self-image and identity x1  Online relationship x1 | Digital literacy  Managing online information x2  Health wellbeing lifestyle x2 | Digital literacy  Online bullying x 2 | Digital literacy  Privacy and security x2 | Digital literacy x4  Copyright and ownership x 2 | |
| Information technology: self-portraits, using cameras and zoom – children to bring their favourite toy | Information technology: celebrating each other’s differences using a voice over. | Information technology:  Using clips to explore the world around us. | Computer science: logical reasoning when  building a rocket | |
| Computer science:  Delivery day – directions. | Computer science:  Animals – position and direction | Information technology: creating a book and adding sound to it | |
| Y1 | Digital literacy:  Health wellbeing lifestyle x1 Privacy and security x 3  Self-image and identity  X2 | Information technology x5  Using the camera, create an organise photographs: Organise and photograph Victorian toys into old and new - Link to science what material is the toy  Use brightness and lighting, make a slideshow | Digital literacy:  Online bullying | Computer science: x 6  Scratch junior, creating a programme using algorithms. | Digital literacy:  Managing online information x 3  Online relationships x4 | Digital literacy: Copyright and ownership x 4  Online reputation x 2 |
| Computer science: x 6  Unplugged physical computing, debugging programmes. | Information technology x 4  Using clips to make videos – flight video clips, including airport trip. Including a sticker for further |
| Y2 | Digital literacy:  Health wellbeing lifestyle x 2  Self-image and identity x2  Privacy and security x4 | Digital literacy:  Online relationships x6 | Digital literacy:  Online bullying x 3 | Computer science x6  Scratch junior coding. | Digital literacy  Managing online information x5 | Digital literacy:  Online reputation x 3  Copyright and ownerships x 2 |
| Information technology x5  Data collection – collecting, recording and inputting data into numbers.  Collect data on our family, siblings etc | Computer science unplugged coding x 5 | Information technology:X4  Link to science  Book creator of a life cycle, or plant, add titles and adding music. Comic book style. |
| Y3 | Digital literacy: Copyright and ownership x 1  Managing online information x3  Self-image and identity x3 | Digital literacy:  Managing online information x 3  Online relationships x5 | Computer science: Microbit basics x 7  Beating heart, name badge, emotions badge | Computer science x 4  Microbit sensors; sunlight  Networks and saving information. | Digital literacy: Privacy and security x 5  Online bullying x2  Health wellbeing and lifestyle x 2 | Digital literacy:  Online reputation x3 |
| Information technology: x6  Changes over time; Stone Age: create a iMovie (2 lessons) presentation using a template linked to topic with photos, videos and voice overs. (3 lessons on magnets and fores) information and create a presentation. | Information technology:  Phyphox data x1 logging, collect data on height and foot length, input onto a scatter graph, children voice over to explain the data.  Data handling: x3  Creating QR codes and Microsoft forms. Collecting insulated materials |
| Y4 | Digital literacy  Copyright and ownership x2  Self-image and identity x 3 | Digital literacy:  Managing online information x 6  Health wellbeing x 2  Online reputation x2 | Computer science: x 6 microbit sensory toy, flashing emotions, times table tester | Computer science: x4  Rock paper scissors, magic ball, conductivity tester | Digital literacy: Privacy and security x 3  Online relationships x3  . | Information technology x2:  I can use email to send messages, recognising spam.  Llandudno posters and presentations using publisher or pages, add titles music and transitions, voice notes. |
| Information technology (music lessons)  Multimedia and garage band  Loop composition  Including live vocals | Digital literacy:  Online bullying x3 | Information technology:  Creating content to inform, use magic move on Keynote to make animations and layering images. Link to topic of living things and what causes a danger |
|  |  |
| Y5 | Digital literacy:  Online relationships x6  Self-image and identity x3  Health wellbeing and lifestyle x 2  Online reputation x2 | Information technology:  Ancient Greece themed; children to create a script on Pages.  Podcasting on pages x1  Podcasting using garage band x1  Podcast – adding effects to a podcast x1  Making jingles using music audio and loops x4 (Christmas effects) | Computer science:  Microbit making a smart watch; step counter and accelerometer X3  Microbit score keeper x2  Microbit mood radio x2 | Computer science:  Create a computer network, physical components of a network and how they are put together.  Sharing information  What is a website  Who owns the web x7 | Digital literacy:  Privacy and security x3  Online bullying x6  Copyright an ownership x 2 | Digital literacy:  Managing online information x9 |
| Information technology:  Using iMovie and imotion to create storyboard, and augmented reality for living things and their habitat  Halo AR app. |
| Y6 | Digital literacy: self-image and identity x2  Online relationships x4  Health wellbeing lifestyle x4 | Digital literacy:  Online bullying x2  Copywrite and ownership x2 | Computer science:  Microbit creating a Tamagotchi lessons 1-3  Pin emotions lessons 4-5 pins as an input and output  Lessons 6-7 reaction game | Computer science:  1-2 Buzzer game  3-4 Data loggers  5-6 Microbit python programming language | Digital literacy  Online reputation x2  Privacy and security x6 | Digital literacy:  Managing online information x 9 |
| Information technology:  Tinker Cad x 6 manipulating, enhancing, constructing, rotating a 3d model. Creating models of Aztec and Mayan community, building up community by lesson.  Designing an app on Keynote. X3  Aztec and Mayan app focusing on ancient civilisation with links and information. | Information technology: Create a budget, video and leaflet about the year 6 performance. |