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**Computing Whole School Long Term Overview**

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| --- | --- | --- | --- | --- | --- | --- |
| **Year Group** | **A1** | **A2** | **Sp1** | **Sp2** | **Su1** | **Su2** |
| **Online Safety**  **Themes**  ***(Focus in each class each half term)*** | **Be Sharp (Think before you share)** | **Be Alert (Check it’s for real)** | **Be Secure (Protect your stuff)** | **Be Kind**  **(Respect each other)** | **Be Brave (When in doubt discuss)** | **Give me 5!**  **Recap Google Internet Legends themes** |
| ***Online Reputation / Self-image & identity*** | ***Managing online information*** | ***Privacy & security / Copyright and ownership*** | ***Online Relationships / Online Bullying*** | ***Health, well-being & lifestyle*** | ***Review*** |
| **Class One** | Text & Images: **We are Computer users!**  **Computer Code** | **Everyday Technology** (Code it!)  **Say Cheese!**  I-Pads, videos & Cameras | Coding Unit**: Forming Instructions / Make a Beebot world** | Data and Communication: **We can find out!** (Safe web research) | Text & Images: **Make it!**  combining words and pictures | Data and Communication: **Graph it!** |
| **Class two Block A** | Unit 1.1 Online Safety & Exploring Purple Mash  (4 wks)  Unit 2.5 Effective Searching  (3 wks) | Unit 1.4 Lego Builders  (3 wks)  Unit 1.9 Technology outside school  (2wks) | Unit 1.2 Grouping & Sorting  (2 wks)  Unit 2.6 Creating Pictures  (5 wks) | Unit 1.8 Spreadsheets  (3 wks)  We are TV Chefs - Film making (4wks) | Unit 1.7 Coding  (6 wks) | Unit 2.1 Coding  (5 wks) |
| **Class two Block B** | Unit 1.1 Online Safety & Exploring Purple Mash  (4 wks)  Unit 1.5 Maze Explorers  (3 wks) | Unit 2.4 Questioning  (5 wks) | Unit 2.2 Online Safety  (2 wks)  Unit 1.6 Animated Story Books  (5wks) | Unit 2.7 Making Music  (3 wks)  Bee-Bots  (4 wks) | Unit 2.3 Spreadsheets  (4 wks)  Unit 1.3 Pictograms  (3 wks) | Unit 2.8 Presenting Ideas  (4 wks)  We are detectives – email (3 wks) |
| **Class three Block A** | Coding (6wks)  *See breakdown below* | Unit 3.2 Online safety (2 wks)  We are computer programmers (4 wks) | Unit 3.3 Spreadsheets (3 wks)  Unit 3.4 Touch Typing (wk 4) | Unit 3.5 Email (including email safety)  (wk 6) | Unit 3.6 Branching Databases  (wk 4)  Comic Life  (2 wks) | Unit 3.7 Simulations  (wk 3)  Unit 3.8 Graphing  (wk 3) |
| **Class three Block B** | Coding (6wks)  *See breakdown below* | Unit 4.2 Online safety (2 wks)  Unit 4.3 Spreadsheets (6 wks) | Unit 4.4 Writing for different audiences  (5 wks) | Unit 4.5 Logo  (wk 4) | Unit 4.6 Animation  (3 wks)  Unit 4.7 Effective Search  (3 wks) | Unit 4.8 Hardware Investigators  (2 wks)  We are photographers (4 wks) |
| **Class four Block A** | Unit 5.1 Coding  (6 wks) | Unit 5.2 Online safety  (2 wks)  Unit 5.3 spreadsheets  (6 wks) | Unit 5.4 Databases  (4 wks) | Unit 5.5 Game Creator  (5 wks) | Unit 5.6 3D Modelling  (4 wks) | Unit 5.7 Concept Map  (4 wks) |
| **Class five Block B** | Unit 6.1 Coding  (6 wks) | Unit 6.2 Online safety  (2 wks)  Unit 6.3 spreadsheets  (5 wks) | Unit 6.4 Blogging  (5 wks) | Unit 6.5 Text Adventures  ( 5wks) | Unit 6.6 Networks  (3 wks) | Unit 6.7 Quizzing |

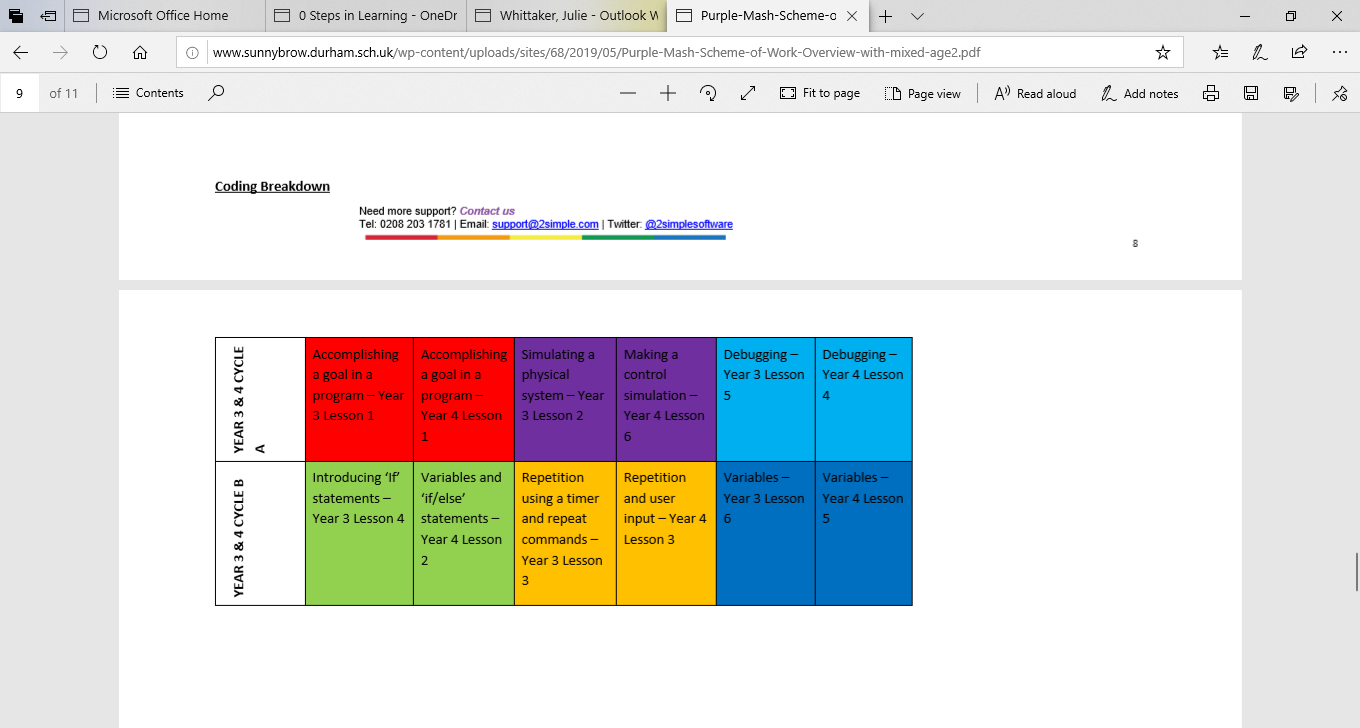
**Coverage Key**

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| --- | --- | --- | --- | --- |
| **Coding & Computational Thinking** | **Text & Images** | **Multimedia** | **Data & Communication** | **Digital Literacy (Online Safety)** |
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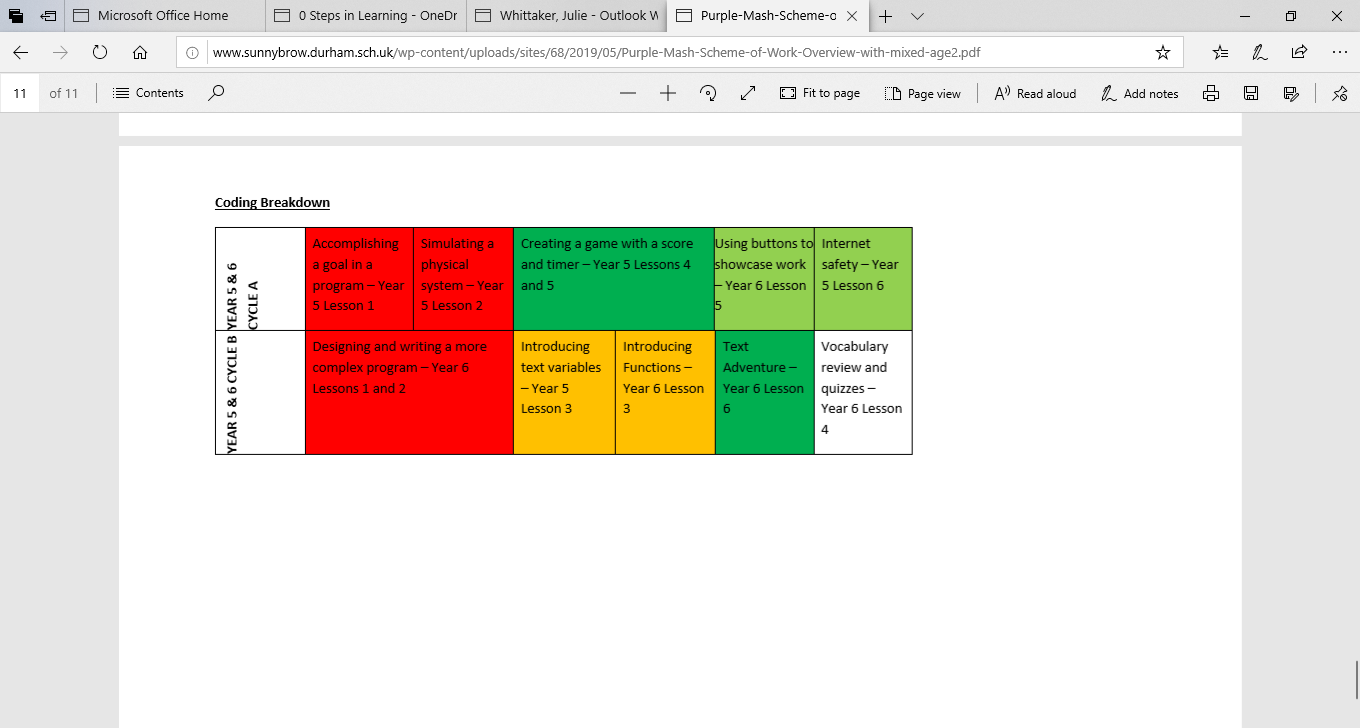
This scheme of work has been designed to cover the computing objectives from the National Curriculuim (2014) and includes a number of key computer ‘life skills’. It has been divided into the following sections:

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| --- | --- |
| Technology in our Lives *(Throughout)* | Learning about technology starts from birth because it’s the way the world works today. Technology is an integral part of all children’s environment and world. They are surrounded by technology just as they are surrounded by language, print and numbers. Technology is something children are going to grow up with, learn about and master, and use as a tool to increase their understanding in all areas of learning. *This area explores how technology is in, and shapes our lives and how to navigate it is a successful and discerning way.* |
| Digital Literacy  *(Throughout & Discreet)* | There are units of work for all year groups covering essential digital literacy / online safety learning. There are also additional lessons using Google Internet Legends (2018). Online safety is also incorporated across all units and is covered across the curriculum. |
| Computational Thinking | Each year group has three units to help develop understanding of programming and algorithms. These are taught through Purple Mash coding online resource and lesson plans and should be supplemented with other coding programmes e.g. Scratch . |
| Digital learning and ICT Life Skills | These units are divided into three main areas:   * Text and Images * Multimedia * Data and Communication   These areas cover many different areas to help children develop as competent computer users. These include:  Text and Images   * Logging off and on * Keyboard and mouse skills * Word processing * Combining text and Images * Web page creation   Multimedia   * Digital art * Animation * Film making * Music creation   Data and Communication   * Data collection and presentation (e.g. graph making) * Web searching and research * Email * Spreadsheets * Presenting (e.g. PowerPoint) |

**Coding Breakdown – Y3 / Y4**



**Coding Breakdown – Y5 / Y6**



**Online Safety Themes (Education for a Connected World)**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Online Safety Lessons** | | | | | | | |
| **Year Group** | **A1** | **A2** | **Sp1** | **Sp2** | **Su1** | **Su2** | |
| **Class Two**  **Cycle A** | SWGFL Y1L1  Y1L4 | SWGFL Y1L2 | SWGFL Y1L3 | SWGFL Y1L5 |  |  | |
| **Class Two**  **Cycle B** | SWGFL Y2L1 | SWGFL Y2L2 | SWGFL Y2L5 | SWGFL Y2L3 |  |  | |
| **Class Three**  **Cycle A** | Internet Legends – lesson 1a | Internet Legends – lesson 1b | Internet Legends – lesson 2a | Internet Legends – lesson 2b |  | |  |
| **Class Three**  **Cycle B** | SWGFL Y4L2  Y4L5 | SWGFL Y3L2  Y3L3 | SWGFL Y3L1  Y3L5 | SWGFL Y3L4  Y4L1 | SWGFL Y4L3 |  | |
| **Class Four**  **Cycle A** | Internet Legends – lesson 3 | Internet Legends – lesson 4 | Internet Legends – lesson 5 | Internet Legends – lesson 6 |  | |  |
| **Class Four**  **Cycle B** | SWGFL Y6L3  Y5L4 | SWGFL Y5L3 | SWGFL Y6L1  Y5L1 | SWGFL Y6L2  Y6L4 | SWGFL Y5L5  Y6L5 | |  |

