

## Computing Overview

### Using iCompute to deliver the Computing Curriculum

| Year Group | Autumn 1 <sup>st</sup> Half                                                                                                                         | Autumn 2 <sup>nd</sup> Half                                                                                       | Spring 1 <sup>st</sup> Half                                                                                                        | Spring 2 <sup>nd</sup> Half                                                                          | Summer 1 <sup>st</sup> Half                                                                                                      | Summer 2 <sup>nd</sup> Half                                                                               |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| EYFS       | I stay safe, I make art<br><br>Use of 'I Compute' program and Purple Mash                                                                           | I make music<br><br>Use of 'I Compute' program and Purple Mash                                                    | I make videos<br><br>Use of 'I Compute' program and Purple Mash                                                                    | I make pictograms<br><br>Use of 'I Compute' program and Purple Mash                                  | I can program<br><br>Use of 'I Compute' program and Purple Mash                                                                  | I can control, I can turn<br><br>Use of 'I Compute' program and Purple Mash                               |
| 1          | <b>Computer safety - introduction</b><br><br><b><u>iAlgorithm</u></b><br><br>Giving and following instructions                                      | <b><u>iWrite</u></b><br><br>Creating digital text                                                                 | <b><u>iData</u></b><br><br>Introducing data representations                                                                        | <b><u>iProgram</u></b><br><br>Algorithm and programming                                              | <b><u>iModel</u></b><br><br>Computer modelling                                                                                   | <b><u>iSafe</u></b><br><br><b>E safety</b>                                                                |
| 2          | <b><u>iSafe</u></b><br><br>Using technology safely and respectfully. Keeping personal information safe. What to do if we have concerns when online. | <b><u>iSearch</u></b><br><br>Using websites and hyperlinks to research a topic area.                              | <b><u>iPublish</u></b><br><br>Looking at changes in the internet. Looking at inventions for the future. Email (using Purple Mash). | <b><u>iProgram</u></b><br><br>Scratch looking at algorithms. Creating and debugging simple programs. | <b><u>iAnimate</u></b><br><br>Using technology purposefully to create, organise, store, manipulate and retrieve digital content. | <b><u>iBlog</u></b><br><br>Writing a blog about a topic that we are familiar with. (Purple Mash).         |
| 3          | <b><u>iSafe</u></b>                                                                                                                                 | <b><u>iNetwork</u></b><br>Exploring networks and learning how digital devices are connected together to form them | <b><u>iConnect</u></b><br>Learning about the Internet and World Wide Web                                                           | <b><u>iData</u></b><br>Exploring databases to find information out and add records.                  | <b><u>iProgram</u></b><br>Developing computational thinking and programming animations with Scratch                              | <b><u>iStimulate</u></b><br>Exploring computer simulations, investigating options and testing predictions |

## Using iCompute to deliver the Computing Curriculum

In addition in Autumn 1:

To design, create and produce a multimedia report about Charles Darwin

**Research project: Charles Darwin**

- ~ Use the Internet to gather text, images, video
- ~ Create and use folders within lists of book-marks or favourites
- ~ Safety on the Internet - what to do.
- ~ Accuracy and reliability of information, distinguishing between fact and fiction.