**Rockcliffe CE School – Whole School Computing Overview**

Below is an overview of the Computing learning focus for each term in each class.

Class teachers may choose to adapt the schemes of work to suit their class but must ensure full coverage across the year in line with the skills progression document.

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| 2024-25 | | | | | | | | | | | |
|  | Autumn | | | Spring | | | | Summer | | | |
| **EYFS** | **Barefoot Computing-**  [Awesome Autumn](https://www.barefootcomputing.org/earlyyears)  **Technology around us**  <https://www.ilearn2.co.uk/computerdiscoveryfree.html>  <http://code-it.co.uk/wp-content/uploads/2015/05/bankplan.pdf>  <http://code-it.co.uk/wp-content/uploads/2015/05/supermarketplan.pdf>  <http://www.crickweb.co.uk/Early-Years.html>  <https://www.nurseryworld.co.uk/News/article/ict-in-role-play-check-it-out> | | **Barefoot Computing-**  [Winter Warmers](https://www.barefootcomputing.org/earlyyears)  **Toys**  Coding Critters  [Sphero Indi](https://sphero.com/pages/sphero-indi)  <https://sphero.com/pages/sphero-indi> | **Barefoot Computing-**  [Busy Bodies](https://www.barefootcomputing.org/earlyyears)  [Head, Shoulder, Knees and Toes](https://www.barefootcomputing.org/resources/head-shoulders-knees-and-toes-algorithms)  **Music creation**  <https://www.ilearn2.co.uk/freeyear1musiccreation.html/>  <https://springroll-tc.pbskids.org/music-maker/d0f261dffc3c8f713fa5a22bb99d7f9afd04cb56/release/index.html>  <https://musiclab.chromeexperiments.com/Voice-Spinner/> | | **Barefoot Computing -**  [Springtime](https://www.barefootcomputing.org/earlyyears)  **Cooking**  Jam sandwich  <http://swaygrantham.co.uk/wp-content/uploads/2016/09/JamSandwichAlgorithm.pdf>  Pizza  <https://www.barefootcomputing.org/docs/default-source/at-home/pizza_party_activity.pdf?sfvrsn=154d91ea_2> | | **Barefoot Computing-**  [Boats Ahoy](https://www.barefootcomputing.org/earlyyears)  **Art**  <https://www.j2e.com/jit5>  [Art and algorithms](http://www.helloruby.com/play/16) | | **Barefoot Computing-**  [Summer Fun](https://www.barefootcomputing.org/earlyyears)  **Other ideas**  [Lego Building](https://www.barefootcomputing.org/resources/lego-building-algorithm-activity)  [Crazy](https://www.barefootcomputing.org/resources/crazy-character-algorithms)  [Characters](https://www.barefootcomputing.org/resources/crazy-character-algorithms) | |
| **Networks** | | **Computer Science** | | | **IT – Media** | | **IT – Data** | | **Digital Literacy** | | **Online Safety** |
|  | | | | | | | | | | | |
|  | **Technology Around Us** | | **Moving a robot** | **Digital Painting** | | [**Data**](https://teachcomputing.org/curriculum/key-stage-1/programming-a-moving-a-robot) **-** [**Pictograms**](https://teachcomputing.org/curriculum/key-stage-1/data-and-information-pictograms) | | **Digital Writing** | | **Programming Robot algorithms** | |
| **Year 1 /2** | **Lessons from Teach Computing**  [Lesson 1](https://teachcomputing.org/curriculum/key-stage-1/computing-systems-and-networks-technology-around-us/technology-in-our-classroom)  [Lesson 2](https://teachcomputing.org/curriculum/key-stage-1/computing-systems-and-networks-technology-around-us/using-technology)  [Lesson 3](https://teachcomputing.org/curriculum/key-stage-1/computing-systems-and-networks-it-around-us/what-is-it)  [Lesson 4](https://teachcomputing.org/curriculum/key-stage-1/computing-systems-and-networks-it-around-us/it-in-school)  [Lesson 5](https://teachcomputing.org/curriculum/key-stage-1/computing-systems-and-networks-it-around-us/it-in-the-world)  [Lesson 6](https://teachcomputing.org/curriculum/key-stage-1/computing-systems-and-networks-it-around-us/the-benefits-of-it)  ONLINE SAFETY – PROJECT EVOLVE  Online relationships | | **Unit from Teach Computing**  <https://teachcomputing.org/curriculum/key-stage-1/programming-a-moving-a-robot>  <https://www.bbc.co.uk/bitesize/topics/z3tbwmn/articles/z3whpv4>  [Beebot emulator](https://beebot.terrapinlogo.com/)  App  [Beebot](https://apps.apple.com/gb/app/bee-bot/id500131639)  Barefoot Computing  <https://www.barefootcomputing.org/resources/bee-bots-basics-activity>  ONLINE SAFETY – PROJECT EVOLVE  Online reputation | **Unit from Teach Computing**  <https://teachcomputing.org/curriculum/key-stage-1/creating-media-digital-painting>  <https://www.j2e.com/jit5>  [Tuxpaint.org](http://www.tuxpaint.org/) (Y2)  <https://www.tate.org.uk/kids/games-quizzes/tate-paint>  Mouse skills  **Cross curricular opportunity** | | **Unit from Teach Computing**  [Data](https://teachcomputing.org/curriculum/key-stage-1/programming-a-moving-a-robot) - [Pictograms](https://teachcomputing.org/curriculum/key-stage-1/data-and-information-pictograms)  ONLINE SAFETY – PROJECT EVOLVE  Managing online information  **Cross curricular opportunity** | | **Unit from Teach Computing**  <https://teachcomputing.org/curriculum/key-stage-1/creating-media-digital-writing>  Combine image and text [https://www.j2e.com/jit5#mix](https://l.facebook.com/l.php?u=https%3A%2F%2Fwww.j2e.com%2Fjit5%3Ffbclid%3DIwAR0ADsy5JcbOn1suj0wUSPhgLY1bAIhgXj6yq0ARUhUreYoMzbdnMWqXCe4%23mix&h=AT2iwQAViYwUOQLGMEhhIq5jq9z6unPh7iAhCENCBr9PFQTr1-Hf8WafSVSvZhi2EGLM8vdOrmcrJKU0olRrgklGAjqk3ScMGE2JjJvwe_sZeHV84DXeL1Wu7mO2K4ykR0jK_whkV4DBlpa7PDYtG5BVjQ&__tn__=-UK-R&c%5b0%5d=AT2Fu-rZiA5HBBH1rwVkspI6LKhmbkHdcOMbXs1vtOWOdbZb9i3xzfCjrDyBxNeMkpMlhkU6UZKn5iHkboDqntmRiXotlxn30UJZaXlCxL3N5A6XWV8Ezcx1OGucyTipomA7s-vhphfGQ6f85ltTkBlnT-Bult2Kk_A)  Book creator  Typing skills  <https://www.abcya.com/games/category/typing>  <https://www.digipuzzle.net/education/typing/>  ONLINE SAFETY – PROJECT EVOLVE  Health, well-being & lifestyle  **Cross curricular opportunity** | | **Unit from Teach Computing**  <https://teachcomputing.org/curriculum/key-stage-1/programming-a-robot-algorithms>  ONLINE SAFETY – PROJECT EVOLVE  Privacy & security  Copyright & ownership | |
|  | **Networks** | | **Programming – Sequencing Sound** | **Creating Media – desktop publishing** | | [**Data**](https://teachcomputing.org/curriculum/key-stage-1/programming-a-moving-a-robot) **-** [**Pictograms**](https://teachcomputing.org/curriculum/key-stage-1/data-and-information-pictograms)**/Branching databases** | | **Programming -Repetition in shapes** | | **Creating Media – Audio production** | |
| **Year**  **3/4** | **Lessons from Teach Computing**  [Lesson 1](https://teachcomputing.org/curriculum/key-stage-2/computing-systems-and-networks-connecting-computers/how-am-i-connected)  [Lesson 2](https://teachcomputing.org/curriculum/key-stage-2/computing-systems-and-networks-connecting-computers/how-are-computers-connected)  [Lesson 3](https://teachcomputing.org/curriculum/key-stage-2/computing-systems-and-networks-connecting-computers/what-does-our-school-network-look-like)  [Lesson 4](https://teachcomputing.org/curriculum/key-stage-2/computing-systems-and-networks-the-internet/what-is-a-website)  [Lesson 5](https://teachcomputing.org/curriculum/key-stage-2/computing-systems-and-networks-the-internet/who-owns-the-web)  [Lesson 6](https://teachcomputing.org/curriculum/key-stage-2/computing-systems-and-networks-the-internet/can-i-believe-what-i-read)  ONLINE SAFETY – PROJECT EVOLVE  Online relationships  Self image and identity | | **Unit from Teach Computing**  Screen free  <https://curriculum.code.org/csf-18/coursec/4/>  Scratch  Tutorials  <https://scratch.mit.edu/projects/editor/?tutorial=getStarted>  <https://csfirst.withgoogle.com/c/cs-first/en/animate-a-name/animate-a-name/animate-a-name.html>  <https://teachcomputing.org/curriculum/key-stage-2/programming-a-sequence-in-music>  ONLINE SAFETY – PROJECT EVOLVE  Online reputation | **Unit from Teach Computing**  <https://teachcomputing.org/curriculum/key-stage-2/creating-media-desktop-publishing>  **Cross curricular opportunity** | | **Unit from Teach Computing**  [Data](https://teachcomputing.org/curriculum/key-stage-1/data-and-information-pictograms) – Pictograms  [Data](https://teachcomputing.org/curriculum/key-stage-2/data-and-information-branching-databases) – branching databases  **Cross curricular opportunity**  ONLINE SAFETY – PROJECT EVOLVE  Managing online information | | **Unit from Teach Computing**  <https://teachcomputing.org/curriculum/key-stage-2/programming-a-repetition-in-shapes>  **Cross curricular opportunity**  ONLINE SAFETY – PROJECT EVOLVE  Health, well-being & lifestyle | | **Unit from Teach Computing**  <https://teachcomputing.org/curriculum/key-stage-2/creating-media-audio-editing>  ONLINE SAFETY – PROJECT EVOLVE  Privacy & security  Copyright & ownership | |

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|  | **Networks – The Internet** | **Programming – Repetition in Shapes** | **Creating Media – Intro to Vector Diagrams** | **Flat file databases** | **Creating Media – Video production** | **Programming - Selection** |
| **Year 4/5** | **Unit from Teach Computing**  <https://teachcomputing.org/curriculum/key-stage-2/computing-systems-and-networks-systems-and-searching>  ONLINE SAFETY – PROJECT EVOLVE  Online relationships  Self image and identity | **Unit from Teach Computing**  <https://teachcomputing.org/curriculum/key-stage-2/programming-a-repetition-in-shapes>  ONLINE SAFETY – PROJECT EVOLVE  Online reputation | **Unit from Teach Computing**  <https://teachcomputing.org/curriculum/key-stage-2/creating-media-introduction-to-vector-graphics> | **Unit from Teach Computing**  **Cross curricular opportunity**  [Data and information – Flat-file databases (teachcomputing.org)](https://teachcomputing.org/curriculum/key-stage-2/data-and-information-flat-file-databases)  ONLINE SAFETY – PROJECT EVOLVE  Managing online information | **Unit from Teach Computing**  <https://teachcomputing.org/curriculum/key-stage-2/creating-media-video-editing>  ONLINE SAFETY – PROJECT EVOLVE  Health, well-being & lifestyle | **Unit from Teach Computing**  <https://teachcomputing.org/curriculum/key-stage-2/programming-a-selection-in-physical-computing>  ONLINE SAFETY – PROJECT EVOLVE  Privacy & security  Copyright & ownership |

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|  | **Networks – Communication and Collaboration** | **Creating Media – Video production** | **Programming - Variables** | **Data - Spreadsheets** | **Creating web pages** | **Progamming – Sensing Movement** |
| **Year 6** | **Unit from Teach Computing**  <https://teachcomputing.org/curriculum/key-stage-2/computing-systems-and-networks-communication>  ONLINE SAFETY – PROJECT EVOLVE  Online relationships  Self image and identity | **Unit from Teach Computing**  <https://teachcomputing.org/curriculum/key-stage-2/creating-media-video-editing>  OR  <https://teachcomputing.org/curriculum/key-stage-2/creating-media-3d-modelling>  if video production has been covered last year.  ONLINE SAFETY – PROJECT EVOLVE  Online reputation | **Unit from Teach Computing**  <https://teachcomputing.org/curriculum/key-stage-2/programming-a-variables-in-games> | **Unit from Teach Computing**  <https://teachcomputing.org/curriculum/key-stage-2/data-and-information-spreadsheets>  ONLINE SAFETY – PROJECT EVOLVE  Managing online information | **Unit from Teach Computing**  **Cross curricular opportunity**  Google Sites or Adobe Creative Express  <https://teachcomputing.org/curriculum/key-stage-2/creating-media-web-page-creation>  ONLINE SAFETY – PROJECT EVOLVE  Health, well-being & lifestyle | **Unit from Teach Computing**  [**https://teachcomputing.org/curriculum/key-stage-2/programming-b-sensing**](https://teachcomputing.org/curriculum/key-stage-2/programming-b-sensing)  ONLINE SAFETY – PROJECT EVOLVE  Privacy & security  Copyright & ownership |