Ormiston Meridian Academy

[OAT] Ormiston Academies Trust AN OAT ACADEMY

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# Subject: Computing — Year 7 Curriculum Map 2024 - 25

| Week Commencing | Topic (including links to additional resources) | Assessment Window |
|---|---|---|
| Staff INSET 02/09<br>Students Return 03/09 | Induction, welcome, logging into Teams, health and safety, computer user agreement | |
| 09/09/2024 | Induction, welcome, logging into Teams, health and safety, computer user agreement | |
| 16/09/2024 | Digital Literacy – Passwords, files and folders and understanding cloud storage. This lesson introduces learners to how they choose a secure password for computing devices. Students will apply a range of basic skills such as how to set up folders and rename files, and understand cloud storage and its wider use. . | |
| 23/09/2024 | Digital Literacy – Using email. Students will learn how to compose and send a simple email with a clear subject line, appropriate greeting, and closing, including the use of CC and BCC. | |
| 30/09/2024 | Digital Literacy – Creating a timetable. Students will use a range of features in word processing software to format text, insert tables and add images ensuring it is visually appealing. | |
| 07/10/2024 | Digital Literacy – Creating a formal letter. Students will learn how to correctly lay out a formal business letter using align, embolden, italicise text and effectively use features like headers, footers and image formatting. | |
| 14/10/2024 | Digital Literacy – Presentation Software. Students will show increased competence in presentation software including balanced layouts, colour schemes, considering fonts/images /animations and utilise a range of features in Presentation software to **target different audiences** | |
| 21/10/2024 | Digital Literacy – Learning Checkpoint | |
| October Half Term | | |
| 04/11/2024 | Revision | Achievement Round 1 |
| 11/11/2024 | AR1 in lessons / CR to follow | Achievement Round 1 |
| 18/11/2024 | Introduction to Programming -Lesson 1 - Students will use Scratch to sequence instructions. | |

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| 25/11/2024 | Introduction to Programming -Lesson 2 - Students will use Scratch to create programs using variables and input to store data and use data provided by an external agency | |
| 02/12/2024 | Introduction to Programming -Lesson 3 - Students will use iteration to repeat instructions, creating geometric shapes from simple instruction sets in Scratch | |
| 09/12/2024 | Dyslexia Screening | |
| 16/12/2024 | Enrichment | |
| Christmas Break | | |
| 06/01/2025 | Introduction to Programming -Lesson 4 - Students will use selection to make decisions, providing multiple paths through a program in Scratch | |
| 13/01/2025 | Introduction to Programming -Lesson 5 - Students will use Scratch to create and use multiple sub-programs, sending messages between subroutines. Students will utilize pre-existing subroutines and subroutines created by others. | |
| 20/01/2025 | Introduction to Programming - Learning Checkpoint | |
| 27/01/2025 | **Lesson 1 – Computer Networks and protocols.** Students will learn about what a computer network is and explain how data is transmitted between computers across networks. Also what a 'protocol' is and provide examples of non-networking protocols. | |
| 03/02/2025 | **Lesson 2 – Networking hardware.** Students will learn about network cables, hubs, servers and routers. Each is explained in turn, and learners then use their knowledge of each component to build a series of increasingly complicated network diagrams. | |
| 10/02/2025 | **Lesson 3 – Wired and wireless networks. Students** will learn how bandwidth varies between these technologies. Learners will discuss the mobile technologies of 3G, 4G, and 5G. Learners will develop an understanding of the term 'bandwidth' and test the performance of their own internet connection. Learners will also develop an appreciation for online activities that are bandwidth-heavy, before moving on to explore the advantages and disadvantages of wired and wireless networks | |
| February Half Term | | |
| 24/02/2025 | **Lesson 4 – The Internet.** Learners will watch a video from one of the "fathers of the internet", Vinton Gray Cerf, who explains the internet and its history. Learners will watch a video called A Packet's Tale which will explain how messages can be successfully sent from one device to another across the planet in under a second using packets and IP addresses. Learners will develop an understanding of packet structure and packet switching. The term 'protocol' will be revisited, and two particular protocols, TCP and IP, will be explained. | |
| 03/03/2025 | **Lesson 5 – Internet Services.** Students will learn about the internet, its services, and the World Wide Web. Learners will understand the difference between the internet and the World Wide Web and how each came about. They will understand that the activity on the internet in a single minute is quite staggering. Through an 'Internet minute' exercise, learners will also understand that many different services are provided across the internet. Email and Voice over Internet Protocol (VoIP) will be explained. The term 'Internet of Things (IoT)' will be explored. | |
| 10/03/2025 | **Lesson 6 – The World Wide Web.** Students will learn about the World Wide Web (WWW), the components that are associated with the WWW, and how they work together. First, learners will look at a series of images and identify how they can be grouped into web browsers, web pages, and search engines. Next, the key components of the WWW are explained (browser, server, web pages, and search engines). A link is made to the first lesson of the unit, in which the class learnt about protocols — learners will develop an understanding of the difference between HTTP and HTTPS protocols. Learners will also gain an understanding of URLs and their structures. | |
| 17/03/2025 | **Modelling Data – Spreadsheets.** ***Getting to know a spreadsheet.*** This lesson introduces students to the concept of spreadsheets and why spreadsheets are useful. They will learn how to navigate a spreadsheet via its rows and columns, and become familiar with the cell referencing system. They will locate and select ranges of cells and change cells' background colour and border properties. | |

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| 24/03/2023 | **Modelling Data – Spreadsheets**. ***Quick calculations***. In this lesson, students will practice entering text into cells of a spreadsheet and then learn how to perform calculations on the data using basic formulas and cell references. They will learn how to use the autofill tool to duplicate cells and continue a linear pattern, and then combine the autofill tool with basic formulas to quickly populate a results column with calculations. | |
| 31/03/2025 | **Modelling Data – Spreadsheets**. ***Quick calculations***. In this lesson, students will practice entering text into cells of a spreadsheet and then learn how to perform calculations on the data using basic formulas and cell references. They will learn how to use the autofill tool to duplicate cells and continue a linear pattern, and then combine the autofill tool with basic formulas to quickly populate a results column with calculations | |
| 07/04/2025 | **Modelling Data – Spreadsheets**. ***Part 1 Become a data master***. In this lesson, students will discover how to use functions to analyse data in a spreadsheet. As well as learning how to automatically create charts from data, they will be introduced to four functions: SUM, MAX, MIN, and COUNTA. Functions allow you to very quickly calculate results. The functions covered in this lesson are used to calculate totals, find the maximum and minimum values in a range, and count populated (i.e. non-blank) cells. | |
| Easter Break | | |
| 28/04/2025 | **Modelling Data – Spreadsheets.** ***Level up your data skills***. This lesson will introduce students to three more functions — COUNTIF, AVERAGE, and IF — and to how they can sort and filter a spreadsheet. Learners will work on a larger data set to get a feel for analysing real-world data using spreadsheets. | |
| 05/05/25 | **Modelling Data – Spreadsheets.** ***Level up your data skills***. This lesson will introduce students to three more functions — COUNTIF, AVERAGE, and IF — and to how they can sort and filter a spreadsheet. Learners will work on a larger data set to get a feel for analysing real-world data using spreadsheets. | |
| 12/05/2025 | **Modelling Data – Spreadsheets**. Learning Checkpoint | |
| 19/05/2025 | **Creative Video Editing** - Come and Visit us<br>Students will be introduced to a promotional video to promote a destination, and with support critique the videos identifying strengths and weaknesses. | |
| May Half Term | | |
| 02/06/2025 | **Creative Video Editing** - Come and Visit us.<br>Students will decide on a destination and conduct research using the internet effectively. They will save suitable images to use in their video, considering audience and purpose, and the copyright properties of the images, | |
| 09/06/2025 | **Creative Video Editing** - Come and Visit us<br>Students will use Canva to create their promotional video, ensuring that all areas of strength identified in the first lesson are applied to their video to ensure a high-quality finish, using transitions, text and images to have a good impact. | |
| 16/06/2025 | AR3 Revision and preparation lesson | Achievement Round 3 |
| 23/06/2025 | AR3 and CR to follow | Achievement Round 3 |
| 30/06/2025 | **Creative Video Editing** - Come and Visit us<br>Students will use Canva to create their promotional video, ensuring that all areas of strength identified in the first lesson are applied to their video to ensure a high-quality finish, using transitions, text and images to have a good impact. | Achievement Round 3 |
| 07/07/2025 | E-safety week | |
| 14/07/2025 | Enrichment | |
| 21/07/2025 | Flexi Inset | |