

Computing and Technology



| The areas of development are: | Solutions |
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| Computing | |
| <ul style="list-style-type: none"> Describing the various types of business and business ownership | <ul style="list-style-type: none"> Explore the range of Business ownership types by looking at Business Ownership on the BBC Bitesize Website |
| <ul style="list-style-type: none"> Understanding the links between technology and business and the importance of this as a communication tool | <ul style="list-style-type: none"> Revise and study effective communication within an organisation and externally, looking at Communication through the BBC Bitesize website |
| <ul style="list-style-type: none"> Being able to use spreadsheet to use a range of formulae in order to present data | <ul style="list-style-type: none"> Study Spreadsheets using the BBC Bitesize website |
| <ul style="list-style-type: none"> Being able to use presentation software in order to graphically present information and data to other users | <ul style="list-style-type: none"> Revise Graphics Software by studying further information on the BBC Bitesize website |
| <ul style="list-style-type: none"> Recognising the various types of networks (local area networks and wide area networks) including wired and wireless network types | <ul style="list-style-type: none"> Revise and study networks focussing on Introduction to Networks on the BBC Bitesize Website |
| <ul style="list-style-type: none"> Recalling and selecting appropriate network topologies | <ul style="list-style-type: none"> BBC Bitesize: Network Types and Topologies |
| <ul style="list-style-type: none"> Understand the principles of Binary numbers and Denary numbers, knowing how to convert these (Binary to Denary and Denary to Binary) | <ul style="list-style-type: none"> Learn how text, images and sound are converted into binary so they can be processed by a computer and how images and sound are compressed to create smaller files : Representing text, images and sounds |
| <ul style="list-style-type: none"> Describing how binary is used to represent data in computers | <ul style="list-style-type: none"> BBC Bitesize: Introducing Binary |
| <ul style="list-style-type: none"> Converting 8-bit binary numbers to denary numbers | <ul style="list-style-type: none"> Use Microsoft teams to revisit the work we completed on Binary and conversion. Practice converting binary to denary numbers |
| <ul style="list-style-type: none"> Converting denary numbers to 8-bit binary numbers | <ul style="list-style-type: none"> Use Microsoft teams to revisit the work we completed on Binary and conversion. Practice converting denary to binary numbers |

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| <ul style="list-style-type: none"> Understanding Logic gates (NOT, AND, OR) and the building blocks of these | <ul style="list-style-type: none"> Study and revise Logic Gates and how to create a Truth Table understanding the differences between them |
| <ul style="list-style-type: none"> Being able to identify the different data types and explain what each represents (String, Integer, Float, Boolean) | <ul style="list-style-type: none"> Revise and develop your understanding of Boolean logic using the BBC Bitesize page Understanding Boolean |
| <ul style="list-style-type: none"> Understanding 3 of the 4 main constructs of programming; Sequence, Selection & Iteration (if statements & loops) | <ul style="list-style-type: none"> Revise and study Programming Constructs relating to Sequence, Selection & Iteration (if statements & loops) |
| <ul style="list-style-type: none"> Creating variables in Python | <ul style="list-style-type: none"> Explore Python website to revise variable types explore the Python tutorials on Codecademy website |
| <ul style="list-style-type: none"> Identifying and correcting syntax errors in Python | <ul style="list-style-type: none"> Revise basic syntax errors on Tutorials Point website explore the Python tutorials on Codecademy website |
| Food Technology | |
| <ul style="list-style-type: none"> Demonstrating safe working practices in food technology | <ul style="list-style-type: none"> Build knowledge at home by helping prepare and cook meals |
| <ul style="list-style-type: none"> Selecting and using a variety of equipment when manufacturing dishes | <ul style="list-style-type: none"> Build knowledge at home by using different equipment and follow on practical lessons to familiarise yourself with different equipment and their uses |
| <ul style="list-style-type: none"> Carrying out a number of knife skills when preparing fruits, vegetables and meats | <ul style="list-style-type: none"> Practise knife techniques at home and in practical lessons Food Preparation and Nutrition textbook: Vegetable cuts, page 15 |
| <ul style="list-style-type: none"> Applying the skills of combining and shaping ingredients when manufacturing dishes | <ul style="list-style-type: none"> Practise various combining and shaping techniques during practical lessons and develop these skills through practice at home |
| <ul style="list-style-type: none"> Using technical skills to make, shape and finish dough based products | <ul style="list-style-type: none"> Practise making various doughs in practical lessons including bread and pastry and develop these at home |
| <ul style="list-style-type: none"> Being aware of all hygiene practices necessary for the safe production of food products | <ul style="list-style-type: none"> Watch the video link: Food Safety - Good Food Hygiene |
| <ul style="list-style-type: none"> Appreciating the current guidelines for a healthy diet and applying knowledge to create balanced meals using the eat well guide | <ul style="list-style-type: none"> Examining Food and Nutrition by Jenny Ridgewell, pages 48 - 77 NHS website: The Eatwell Guide |
| <ul style="list-style-type: none"> Understand the different macronutrients, their function, sources and the consequences of deficiency and excess | <ul style="list-style-type: none"> The British Heart Foundation website: Sugar, Salt and Fat Health Care, Beauty and Fashion Blog: Side Effects of too much Sugar, Salt, Fats and Trans Fats in Diet |
| <ul style="list-style-type: none"> Adapting dishes to meet specific dietary needs, improve sensory appeal and meet current guidelines for a healthy diet | <ul style="list-style-type: none"> Healthy Kids Association website: Macronutrients Fitday website: Micronutrients : What they are and why they are essential |

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| <ul style="list-style-type: none"> Identifying and understanding the labelling information found on commercially produced food products | <ul style="list-style-type: none"> The British Heart Foundation website: Sugar, Salt and Fat |
| <ul style="list-style-type: none"> Appreciating where and how ingredients are grown or reared and describing what environmental issues are associated with food production | <ul style="list-style-type: none"> BBC Bitesize website: Environmental and ethical factors |
| <ul style="list-style-type: none"> Understanding the functional and chemical properties of food and the scientific principles that alter the working characteristics during the manufacture of dishes | <ul style="list-style-type: none"> Watch a selection of PowerPoint presentations, read a number of fact sheets and complete student worksheets on the following website: Food a fact of Life: Functional properties of food |
| <u>Design and Technology</u> | |
| <ul style="list-style-type: none"> Further information and support can be found on Technology Student website (using the Design and Technology subject area) | |
| <ul style="list-style-type: none"> Revision guides can support your understanding of these topics | |
| <ul style="list-style-type: none"> Develop your understanding using the Design and Technology textbook (a copy of this is in the library) | |
| <ul style="list-style-type: none"> Further information and support can be found by using GCSEPod (Use the D&T subject area as well as old specification materials) | |
| <ul style="list-style-type: none"> Further information and support can be found on Microsoft Team | |
| <ul style="list-style-type: none"> BBC Bitesize website | |
| <ul style="list-style-type: none"> Complete practice questions which link to the topics covered in lessons to support revision for the progress test | |

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