

St Bede's Catholic Voluntary Academy

KS3 Age Related Expectations

Department: Computing

Year Group: 8

Working Towards	Working At	Working Beyond
Term 1 - Digital Citizenship – - Define what a “Digital Footprint” is. - Identify multiple aspects that make up a “digital footprint”. - Identify multiple digital threats that can occur through the use of a “digital footprint”.	Term 1 - Digital Citizenship – - Describe how the different aspects of a “digital footprint” are formed. - Describe multiple negative online behaviours and how to apply multiple best practices to appropriately respond to these behaviours. - Describe potential future impacts and consequences from an individual's “digital footprint”. - Describe multiple practices to safely manage individual “Digital Footprints” and use social media.	Term 1 - Digital Citizenship – - Explain how the rule of law including GDPR applies to social media and online materials. - Explain how AI can be used to manipulate “Digital footprints”. - Explain how algorithms can manipulate “digital footprints”.



Term 2 - Digital Literacy – • Identify the different features of Microsoft Excel. • Identify the different cell references within Microsoft Excel. • Identify multiple formulas and functions within Microsoft Excel. Term 3 – Computer Science – • Define the key terms “binary” and “denary”. • Describe how to decode up to a four-digit binary code into denary form.	Term 2 - Digital Literacy – • Describe what different features are used for within “Microsoft Excel”. • Describe and apply multiple formulas and functions when using “Microsoft Excel”. • Create a spreadsheet applying formulas and functions to a real-world scenario using “Microsoft Excel”. Term 3 – Computer Science – • Successfully identify and use binary numbers up to 6 digits long. • Describe how to perform binary addition and apply it in binary and denary forms. • Describe how to perform binary subtraction and apply it in binary and denary forms. • Describe the relationship between binary coding and other coding languages.	Term 2 - Digital Literacy – • Explain how to use and apply multiple advanced practices for “Microsoft Excel”. • Explain how to create and apply data-based graphics within “Microsoft Excel”. Term 3 – Computer Science – • Describe how to perform binary multiplication and apply it in binary and denary forms. • Describe how to perform binary division and apply it in binary and denary forms. • Explain how binary coding is applied in daily life in our modern society today.
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Term 4 – Computer Science – • Describe how to use an “if” statement. • Describe how to use an “else” statement. • Describe how to use a “then” statement. Term 5 – Computer Science • Identify what HTML stands for. • Identify what HTML code is used for in our modern-day world. • Identify some basic syntaxes in HTML and describe what their function is.	Term 4 – Computer Science – • Describe what a loop is and apply it using Python code. • Describe what a list is and apply it using Python code. • Describe what string manipulation is and apply it using Python code. • Describe what a sequence is and apply it using Python code. Term 5 – Computer Science • Describe how to use multiple basic elements including headings, paragraphs and links and apply them. • Describe and apply the primary structure of a HTML page. • Describe and apply image-based HTML coding including RGB and HEX. • Design and code a suitable webpage for a given scenario.	Term 4 – Computer Science – • Explain how loops and sequences are used in coded applications today. • Explain how Python coding is used in our everyday modern society today. Term 5 – Computer Science • Explain how the controls element can be added and coded to a video. • Explain how to code an embed streaming platform (Eg: YouTube) into a HTML webpage.
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Term 6 – Computer Science • Define what “JavaScript” is. • Identify what Boolean logic is. • Identify what a loop statement is. • Identify what a list is.	Term 6 – Computer Science • Describe what JavaScript is and how it is used in industry. • Describe what an application is and the different platforms that they can be applied on. • Describe what makes a good design layout of an application considering the user. • Design and code a suitable application for a given scenario.	Term 6 – Computer Science • Explain how JavaScript relates to other coding languages. • Explain how JavaScript is used in other applications including websites. • Be able to code JavaScript in a text-based code format.
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