

# St. Aidan's Catholic Academy

## Y9 Curriculum Map

Half Term	Curriculum Content	Suggest Reading or Extension Activities
Autumn HT1	<p><b>Component 1 – exploring user interfaces – (HT1)</b></p> <p><u>Component 1</u> Research various user interfaces and discuss features of each</p> <p>Explain where different types of user interfaces are used Explain design principles</p> <p>Theory Topics - <b>A1 Modern technologies</b> - communication Technologies</p> <p>Complete Assignment brief for Learning Aim <b>A</b></p>	Research the different user interfaces
Autumn HT2	<p><b>Component 1 - (HT2)</b></p> <p><u>Component 1</u> Investigate various planning techniques Investigate various design methodologies Use project planning techniques to plan and design a user interface Complete Assignment brief for Learning Aim <b>B</b></p> <p>Theory topics – Smart targets <b>B1 Threats to data-</b> Why systems are attacked</p>	What are SMART targets
Spring HT3	<p><b>Component 1 - (HT3)</b></p> <p><u>Component 1</u> Develop and review a user interface</p> <p>Develop a user interface from designs Gain feedback for user interface Refine user interface</p> <p>Assess success of user interface and the use of project planning techniques</p> <p>Complete Assignment brief for Learning Aim <b>C</b></p>	Build skills by completing tutorials using MIT App inventor
Spring HT4	<p><b>Theory (HT4)</b></p> <p><u>Theory Topics - A1 Modern technologies</u> - Features and users of cloud storage Features and users of cloud computing How the selection of platforms and services impacts on the use of cloud technologies</p>	Use various cloud technologies e.g. Microsoft 365 and Google
Summer HT5	<p><b>Component 2 (HT5)</b></p> <p><u>Component 2</u> Collecting, Presenting and Interpreting Data</p> <p>Part A - Investigate the characteristics of data and characteristics of information</p>	

	<p>Part B - Assess how data collection methods and data collection features affect its reliability</p> <p><u>Theory Topics - B1 Threats to data</u> External threats to digital systems and data security</p>	
Summer HT6	<p><b>Component 2 (HT6)</b></p> <p><u>Component 2</u> Collecting, Presenting and Interpreting Data Part C – Investigate two different types of organisations that use data modelling to make decisions</p>	

### How you will be assessed

Level 1 Pass	Level 1 Merit	Level 2 Pass	Level 2 Merit	Level 2 Distinction
<b>Learning aim A: Investigate user interface design for individuals and organisations</b>				
<b>A.1P1</b> Identify design principles used in two different types of user interfaces, with an example for each interface.	<b>A.1M1</b> Describe the design principles used in two different types of user interface, with some examples for each interface.	<b>A.2P1</b> Explain how two different types of user interface meet design principles, with some relevant examples.	<b>A.2M1</b> Analyse how two different types of user interface meet the design principles and user needs, with relevant detailed examples.	<b>A.2D1</b> Assess how effectively two different types of user interface meet the design principles and user needs, with justified examples.
<b>A.1P2</b> Identify ways that the user interfaces meet user needs, with one example for each interface.	<b>A.1M2</b> Describe ways that the user interfaces meet user needs, with some examples.	<b>A.2P2</b> Explain how the user interfaces meet user needs, with some relevant examples.		
<b>Learning aim B: Use project planning techniques to plan and design a user interface</b>				
<b>B.1P3</b> Create a project plan for the design of a user interface that makes limited use of some project planning techniques. <b>B.1P4</b> Create an initial design that meets some user requirements but is limited in most aspects.	<b>B.1M3</b> Create a project plan for the design of a user interface that makes some relevant use of project planning techniques. <b>B.1M4</b> Create an initial design that meets some user requirements.	<b>B.2P3</b> Create an appropriate project plan for the design of a user interface that makes relevant use of project planning techniques. <b>B.2P4</b> Create a detailed initial design that shows how it meets most user requirements.	<b>B.2M2</b> Create an appropriate project plan for the design of a user interface that makes effective use of project planning techniques and create a detailed and considered initial design that shows how it meets most user requirements.	<b>B.2D2</b> Create an appropriate project plan for the design of a user interface that makes full and effective use of project planning techniques and create a comprehensive initial design that shows how it meets all user requirements

Level 1 Pass	Level 1 Merit	Level 2 Pass	Level 2 Merit	Level 2 Distinction
<b>Learning aim A: Investigate the role and impact of using data on individuals and organisations</b>				
<b>A.1P1</b> Identify data collection methods across two sectors.	<b>A.1M1</b> Describe data collection methods across two sectors.	<b>A.2P1</b> Explain how data collection methods and their features affect the quality of data across two sectors, with relevant examples.	<b>A.2M1</b> Discuss data collection methods and features used and how they affect the quality of data and decision making in two sectors, drawing justified conclusions.	<b>A.2D1</b> Assess data collection methods and features used and how they affect the quality of data and decision making in two sectors, drawing detailed justified conclusions.
<b>A.1P2</b> Identify data that is used to make decisions across two different sectors.	<b>A.1M2</b> Describe data that is used to make decisions across two sectors.	<b>A.2P2</b> Explain how data is used to make decisions across two sectors, with relevant examples.		
<b>Learning aim B: Create a dashboard using data manipulation tools</b>				
<b>B.1P3</b> Use methods to carry out limited manipulation of data, with a limited degree of accuracy.	<b>B.1M3</b> Use methods to carry out some manipulation of data, with some inaccuracies.	<b>B.2P3</b> Select and use methods to carry out some manipulation of data, which is largely accurate.	<b>B.2M2</b> Select and use relevant methods to effectively and accurately manipulate data and produce an effective dashboard that clearly summarises data.	<b>B.2D2</b> Select and use relevant methods to effectively and accurately manipulate data and produce a fully efficient and comprehensive dashboard.
<b>B.1P4</b> Produce a dashboard that produces a limited summary of data.	<b>B.1M4</b> Produce a dashboard that produces a limited summary of data, with some appropriate presentation methods.	<b>B.2P4</b> Produce an appropriate dashboard that clearly summarises data.		
<b>Learning aim C: Draw conclusions and review data presentation methods</b>				
<b>C.1P5</b> Use the dashboard to identify trends in the data.	<b>C.1M5</b> Use the dashboard to outline some trends in the data.	<b>C.2P5</b> Use the dashboard to draw conclusions, with some appropriate recommendations.	<b>C.2M3</b> Analyse how the dashboard's presentation of data influences the conclusions drawn and the recommendations made, using relevant examples.	<b>C.2D3</b> Assess the effectiveness of the dashboard's presentation of data and how it affects the conclusions drawn and the recommendations made, using justified examples.
<b>C.1P6</b> Identify the methods used to present data.	<b>C.1M6</b> Describe the methods used to present data so that it can be understood, with brief examples.	<b>C.2P6</b> Explain the methods used to present data so that it can be clearly understood, with detailed examples.		<b>C.2D3</b> Assess the effectiveness of the dashboard's presentation of data and how it affects the conclusions drawn and the recommendations made, using justified examples.

Half Term	Assessment Tasks
Autumn HT 1	Assessment 1 - Theory – Communication technologies Assessment 2 – Learning Aim A
Autumn HT 2	Assessment 1 – Theory - Why systems are attacked Assessment 2- Learning Aim B
Spring HT3	Assessment 1– learning Aim C
Spring HT 4	Assessment 1- Theory Cloud Computing
Summer HT 5	Assessment 1- Component 2 learning A Part A Assessment 2- Component 2 learning A Part B Assessment 3 - Theory - External threats to digital systems and data security
Summer HT6	Assessment 1- Component 2 learning A Part C

**ICT & Computer Science  
Homework Tasks  
Autumn Term**

**Homework 1** – Research how modern technologies can be used to manage modern teams. E.g. collaboration tools, communication tools, scheduling and planning tools.

**Homework 2** – Research how organisations use modern technologies to communicate with stake holders e.g. communication platforms such as website, social media, email, voice communication. Selection of appropriate communication channels for sharing data, information and media.

*Other homework may be given throughout the year to improve work in order to achieve a higher grade.*

**ICT & Computer Science  
Homework Tasks  
Spring Term**

**Homework 1** – Report on how modern technologies aid inclusivity and accessibility e.g. interface designs, accessibility features, flexibility of work hours and locations

**Homework 2** – Report on how cloud and traditional systems are used together e.g. device synchronisation, online/offline working, notifications.

**ICT & Computer Science  
Homework Tasks  
Summer Term**

**Homework 1** – Research internal threats (within organisation) to digital systems and data security e.g. unintentional disclosure of data, stealing or leaking information, overriding security controls, portable storage devices, downloads from internet.

**Homework 2** – report on impact of security breach e.g. data loss, public image, financial loss, downtime, legal action.

**Homework 4** – Knowledge – Software

Parents /Carers can help their child by:

Encouraging the development of ICTs using online resources, or using computers to develop skills using specific software.

Useful websites	<a href="https://www.bbc.com/education/subjects/zqmtsbk">https://www.bbc.com/education/subjects/zqmtsbk</a> <a href="https://qualifications.pearson.com/en/qualifications/btec-tech-awards/digital-information-technology.html">https://qualifications.pearson.com/en/qualifications/btec-tech-awards/digital-information-technology.html</a>
Revision Sources	
Extra Curricula Activities	Computer Club after school

Who can I contact?	Head of Department	Andrea Cain
	Subject Teachers	Andrea Cain Christine Johnson Joanna Jackson