Subject Long Term Plan

As ICT underpine today's modern lifestyle it is essential that all pupils gain the confidence and ability, that they need in this subject, to prepare them for the challenge of a rapidly developing and changing technological world in a responsible and ethical manner.

Year 10

UDW 1

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Introduction to Digital Information technology including key terms.	Investigate two different types of user interface.	Assess the needs of the audience and how these affect both the layout and design of the interface.	How the design principles used in each interface meet user requirements.	Respond to formative comments made by my tutor.	Assess the different techniques that will allow the user to effectively use the interface.	Respond to formative comments made by my tutor.

Pupils will know:
- how to ASSESS the requirements needed to create a user interface for a client;
- how to ASSESS the needs of an audience when designing an interface;
- how to CREATE an initial design that will meet all the user requirements.

Pupils will be able to:
- ASSESS the requirements needed to create a user interface for a client;
- ASSESS the different techniques that allow the efficient use of an interface;
- CREATE an initial design that will meet all the user requirements;
- CREATE a project plan for the design of a user interface.

UDW 2

Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
CREATE an appropriate project plan for the design of a user interface which makes full and effective use of project planning to meet assessment criteria B.2P2, B.2M2 and B.2D2	continue to CREATE an appropriate project plan for the design of a user interface which makes full and effective use of project planning to meet assessment criteria B.2P2, B.2M2 and B.2D2	continue to CREATE an appropriate project plan for the design of a user interface which makes full and effective use of project planning to meet assessment criteria B.2P2, B.2M2 and B.2D2	RESPOND to formative comments made by my tutor for assessment criteria B2.P2, B2.M2 and B2.D2.	CREATE a detailed initial design that meets most user requirements to meet assessment criteria B.2P4.	continue to CREATE a detailed initial design that shows how it meets most user requirements to meet assessment criteria B.2P4.	RESPOND to formative comments made by my tutor for assessment criteria B2.P4.

Pupils will know:
- how to ASSESS the requirements needed to create a user interface for a client;
- how different techniques are used for planning projects;
- how to CREATE an initial design that will meet all user requirements.

Pupils will be able to:
- ASSESS the requirements needed to create a user interface for a client;
- CREATE a project plan for the design of a user interface.

UDW 3

Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21
Using my planning and all the resources collected make a fully interactive interface for the Kesterke Stadium.				PRESENT my user interface to potential users to meet assessment criteria C.2P5, obtain feedback from potential users to meet assessment criteria C.2M2 and C.2D3.	REVISE my user interface using feedback to make improvements to meet assessment criteria C.2M2 and C.2D3; RESPOND to formative comments made by my tutor for assessment criteria C.2P5, C.2M2 and C.2D3.	EXPLAIN the strengths of both my user interface and project plan, summarising decisions made to meet assessment criteria C.2P6; EXPLAIN the weaknesses of both my user interface and project plan, summarising decisions made to meet assessment criteria C.2P6.

Pupils will know:
- how to USE feedback to help refine a user interface;
- how to ANALYSE the strengths and weaknesses of a user interface.

Pupils will be able to:
- REFINE my user interface using feedback from my peers;
- summarise the strengths and weaknesses of a user interface.

UDW 4

Week 22	Week 23	Week 24	Week 25	Week 26	Week 27	Week 28
RESEARCH and use methods to carry out some manipulation of data, which is largely accurate; produce an appropriate dashboard that clearly summarises data to meet assessment criteria B2.P3 and B2.P4.	Select and use relevant methods to effectively and accurately manipulate data.	Produce an effective dashboard that clearly summarises data to meet assessment criteria B2.M2.	Produce an effective dashboard that clearly summarises data to meet assessment criteria B2.M2.	RESPOND to formative comments made by my tutor for assessment criteria B2.P3 and B2.M2.	RESEARCH and use methods to carry out some manipulation of data, which is largely accurate; produce an appropriate dashboard that clearly summarises data to meet assessment criteria B2.P3 and B2.P4.	Produce an effective dashboard that clearly summarises data to meet assessment criteria B2.M2. RESPOND to formative comments made by my tutor for assessment criteria B2.M2.

Pupils will know:
- how data is collected and what features are used;
- how to impart data into Google Sheets;
- how to create pivot charts in Google Sheets.

Pupils will be able to:
- create a simple dashboard that summarises some of the data;
- create an comprehensive dashboard that summarises all of the data.

UDW 5

Week 29	Week 30	Week 31	Week 32	Week 33	Week 34	Week 35
Select and use relevant methods to effectively and accurately manipulate data; produce a fully efficient and comprehensive dashboard to meet assessment criteria B2.D2.	Use my dashboard to draw conclusions with some justified recommendations to meet assessment criteria C.2.P5; RESPOND to formative comments made by my tutor for assessment criteria C.2.P5.	Use my dashboard to draw conclusions with justified recommendations to meet assessment criteria C.2.P5; RESPOND to formative comments made by my tutor for assessment criteria C.2.P5.	ANALYSE how my dashboard presentation of data influences the conclusions drawn and the recommendations made, using relevant examples to meet assessment criteria C.2.M5.	ANALYSE how my dashboard presentation of data influences the conclusions drawn and the recommendations made, using relevant examples to meet assessment criteria C.2.M5; RESPOND to formative comments made by my tutor for assessment criteria C.2.M5.	ASSESS the effectiveness of my dashboards presentation of data and how it affects the conclusions drawn and the recommendations made, with justified examples to meet assessment criteria C.2.D5.	RESPOND to formative comments made by my tutor for assessment criteria C.2.D5.

Pupils will know:
- how to change their data into appropriate charts;
- how to evaluate their results;

Pupils will be able to:
- analyse data using their dashboard;
- make justified recommendations using their dashboard.

Year 11

UDW 1

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Introduction to Digital Information technology including key terms. Investigate how to set up and use wired networks.	Describe the features and uses of cloud computing.	Assess the changes to modern teams facilitated by modern technologies	Research how modern technologies aid inclusivity and collaboration - technique - test understanding of cloud computing and storage and accessibility	Exam technique - test understanding of cloud computing, storage and accessibility; understanding of cloud computing storage and accessibility.	Understand the internal threats within an organisation and the impact of security breaches.	Understand the reasons why systems are attacked, external threats to systems and data.

Pupils will know:
- how organisations use information presented in different ways;
- how to set up and use networks;
- how companies use technology to communicate;
- how security breaches impact an organisation;
- how systems are attacked.

Pupils will be able to:
- ASSESS the positive and negative impacts of modern technologies on organisations;
- ASSESS the impact of modern teams facilitated by modern technologies;
- ASSESS the impacts of security breaches on an organisation;
- ASSESS why systems are attacked.

UDW 2

Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
RESEARCH the measures used to protect digital systems and reduce the vulnerabilities; how weaknesses are found and system security is improved.	Investigate measures used to protect digital systems and reduce the vulnerabilities; Understand different user restrictions and assess how weaknesses are found and how security could be improved.	Research measures that can be implemented to protect and manage digital systems. Define who is responsible for cyber security and how concerns are reported.	Understand the requirements of a disaster recovery strategy including backup and recovery. Research the actions needed to protect from security attack and explain how data is shared and exchanged between different services.	Describe the benefits and drawbacks of sharing and exchanging data and explain how data can be shared and exchanged between different services. Evaluate the environmental considerations when upgrading or replacing computers.	Understand data protection legislation and develop an understanding of intellectual property.	Research how criminals gain unauthorised access to computer systems. Analyse how criminals create and spread malware in computer systems.

Pupils will know:
- how digital systems are protected from outside threats;
- how digital systems can improve security;
- how data is shared and exchanged between different services;
- how data can be protected;
- how criminals spread malware in computer systems.

Pupils will be able to:
- ASSESS weaknesses in system security and how it can be improved;
- DEFINE who is responsible for cyber security and how concerns are reported;
- DESCRIBE the benefits and drawbacks of using shared data.

UDW 3

Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21
EXPLORE a range of notation diagrams; IDENTIFY how organisations use information flow diagrams to explain systems; EXPLORE information presented in the form of a data flow diagram.	ASSESS how organisations use flowcharts to explain systems; CREATE a flowchart in a range of contexts and complete a range of short and long style exam questions to test my understanding of system diagrams and tables.	ASSESS how organisations use systems diagrams; DESCRIBE how organisations use tables and written documentation to explain systems and data; and complete a number of short and long style exam questions to test my understanding of system diagrams and tables.	Review Component 2 Learning Aim B and C			

Pupils will know:
- how organisations use information presented in different ways;

Pupils will be able to:
- produce system diagrams that show the effective flow of information in an organisation.

UDW 4

Week 22	Week 23	Week 24	Week 25	Week 26	Week 27	Week 28
Revision weeks for component 3 exam resit						

Pupils will know:
- how to create exam technique for component 3;

Pupils will be able to:
- answer short and long style exam questions for component 3;
- review and practice exam papers.

UDW 5

Week 29	Week 30	Week 31	Week 32	Week 33	Week 34	Week 35
Resits						

Pupils will know:

Pupils will be able to:

Year 9 - UNIT 2

UDW 1

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Introduction to Information technology including key terms.	Describe the functions and features of a DBMS.	Investigate scenarios and resolve relationships to ensure data integrity.	Assess a given database against the client requirements (mock paper 1). Create and ERD structure using exam techniques.	Create forms to facilitate database solutions (mock paper 1).	Respond to formative comments made by tutor.	Create queries to facilitate database solutions (mock paper 1).

Pupils will know:
- how relational databases are constructed;
- how relational keys are used;
- how relational keys are used to link tables;

Pupils will be able to:
- EXPLAIN how a database needs to be structured;
- EXPLAIN different entity relationships;
- EXPLAIN the purpose of a primary key;
- determine primary keys and foreign keys in a table to maintain data integrity.

UDW 2

Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
ASSESS the database against the client requirements (mock paper 2 - Part a).	CREATE the table structure to meet a clients needs (mock paper 2 - Part a).	CREATE an ERD structure to meet a clients needs (mock paper 2 - Part a).	RESPOND to formative comments made by my tutor.	CREATE queries to facilitate a database solution (mock paper 2 - Part b).	RESPOND to formative comments made by my tutor.	CREATE reports to facilitate a database solution (mock paper 2 - Part a).

Pupils will know:
- how to CREATE a relational database;
- how to CREATE an ERD structure for a given database;
- how to CREATE queries.

Pupils will be able to:
- PLAN a relational database;
- CREATE a relational database;
- CREATE forms for inputting data into a database.

UDW 3

Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21
RESPOND to formative comments made by my tutor.	USE a test plan to test the structure of the validation of your relational database.	RESPOND to formative comments made by my tutor.	EVALUATE how well your database structure meets the requirements.	RESPOND to formative comments made by my tutor.	ASSESS the database against the client requirements (mock paper 2 - Part b).	CREATE forms to facilitate a database solution (mock paper 2 - Part b).

Pupils will know:
- how to CREATE a relational database;
- how to CREATE a test plan;
- how to EVALUATE a database.

Pupils will be able to:
- PLAN a relational database;
- CREATE a relational database;
- EVALUATE a relational database

UDW 4

Week 22	Week 23	Week 24	Week 25	Week 26	Week 27	Week 28
RESPOND to formative comments made by my tutor.	USE a test plan to test the structure of the validation of your relational database.	RESPOND to formative comments made by my tutor.	EVALUATE how well your database structure meets the requirements.	RESPOND to formative comments made by my tutor.	ASSESS the database against the client requirements (mock paper 2 - Part b).	CREATE the table structure to meet a clients needs (mock paper 2 - Part a).

Pupils will know:
- how to ASSESS a database against specific needs;
- how to CREATE an ERD structure for inputting data into a database;
- how to USE a test plan;
- how to EVALUATE how well your database structure meets these requirements.

Pupils will be able to:
- PLAN a relational database;
- CREATE a relational database;
- EVALUATE how well your database structure meets these requirements.

UDW 5

Week 29	Week 30	Week 31	Week 32	Week 33	Week 34	Week 35
CREATE an ERD structure to meet a clients needs (mock paper 2 - Part a).	CREATE queries to facilitate a database solution (mock paper 2 - Part a).	CREATE reports to facilitate a database solution (mock paper 2 - Part a).	RESPOND to formative comments made by my tutor.	USE a test plan to test the structure of the validation of your relational database.	EVALUATE how well your database structure meets the requirements.	RESPOND to formative comments made by my tutor.

Pupils will know:
- how to CREATE a relational database;
- how to CREATE an ERD structure for a given database;
- how to CREATE queries.

Pupils will be able to:
- PLAN a relational database;
- CREATE a relational database;
- CREATE forms for inputting data into a database.

Year 12 - Unit 3

UDW 1

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Introduction to Qualification	Explain the different ways in which a business can use social media.		Produce a report based on the research for assessment criteria A.P1.	Explain the audience profiles of different social media websites.	Produce a report based on the research for assessment criteria A.P2.	Assess the different ways in which a business can use social media to attract a target audience.

Pupils will know:
- how businesses use social media;
- how social media is used to attract a target audience;
- how social media promotes services and products.

Pupils will be able to:
- EXPLAIN how social media is used in business;
- EXPLAIN how social media can target a specific audience;
- EXPLAIN how social media promotes services and products.

UDW 2

Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Produce a report based on the research for assessment criteria A.M1.	Evaluate the business use of social media to interact with customers and promote products or services to a target audience.	Produce a report based on the research for assessment criteria A.D1.	Produce a plan to use social media in a business to meet its business requirements.		Produce a report based on the research for assessment criteria B.P3.	Assess the plan with others in order to identify and inform improvements.

Pupils will know:
- how businesses use social media;
- how social media is used to attract a target audience;
- how social media promotes services and products.

Pupils will be able to:
- EXPLAIN how social media is used in business;
- EXPLAIN how social media can target a specific audience;
- EXPLAIN how social media promotes services and products.

UDW 3

Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21
Produce a report based on the research for assessment criteria B.P4.	Justify planning decisions made, showing how it will fit the purpose and business.	Produce a report based on the research for assessment criteria B.M2.	Produce business-related content using appropriate social media features.	Produce a report based on the research for assessment criteria C.P6.	Review data obtained on social media usage and interaction.	Produce a report based on the research for assessment criteria C.P6.

Pupils will know:
- how to justify planning decisions;
- how to create business related content in a social media campaign;
- how to review data produced for a social media campaign;

Pupils will be able to:
- CREATE business related content using appropriate social media features;
- add social media content to Edmodo;
- JUSTIFY planning decisions made;
- REVIEW data produced from a social media campaign for a business.

UDW 4

Week 22	Week 23	Week 24	Week 25	Week 26	Week 27	Week 28
Optimise the content, format and features of social media which meet the requirements of the plan.	Evaluate the plan and use of social media in a business against business requirements.	Produce a report based on the research for assessment criteria C.M3 & BC.D3.	Demonstrate individual responsibility, creativity, and effective self-management in the planning and use of social media in a business context.	Produce a report based on the research for assessment criteria BC.D2.	Review Coursework	

Pupils will know:
- how to IDENTIFY features and implications of online surveys;
- how to use and manipulate data;
- how to EXPLAIN the purpose and principles of a website.

Pupils will be able to:
- EXPLAIN the purpose and principles of a website;
- EXPLAIN factors affecting website performance;
- IDENTIFY media and objects in a website.

UDW 5

Week 29	Week 30	Week 31	Week 32	Week 33	Week 34	Week 35
Compare the principles of website design used in two websites, including their suitability for the intended audience and intended purpose.	Produce a report based on the research for assessment criteria D.P1.	Produce a report based on the research for assessment criteria D.P1.	Compare how the principles of website design are used to produce creative, high performance websites which meet client requirements.	Compare how the principles of website design are used to produced creative, high performance websites which meet client requirements.	Produce a report based on the research for assessment criteria A.M1 & A.D1.	

Pupils will know:
- how to IDENTIFY features and implications of online surveys;
- how to use and manipulate data;
- how to EXPLAIN the purpose and principles of a website.

Pupils will be able to:
- EXPLAIN the purpose and principles of a website;
- EXPLAIN factors affecting website performance;
- IDENTIFY media and objects in a website.

Year 13

UDW 1

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Introduction to Information technology including key terms.	Investigate input, output, storage, peripheral devices and media.	Investigate input, output, storage, peripheral devices used in IT today.	Identify computer software for different types of IT system.	Identify the role and factors of an operating system; exam technique - answering short and long questions about computer components.	Explain how emerging technologies affect the performance of IT systems.	Describe the factors affecting the choice of digital technology; exam technique - answering short and long questions about digital devices.

Pupils will know:
- how to IDENTIFY different digital devices;
- how to DESCRIBE the features and functions of digital devices;
- how to IDENTIFY input and output devices.

Pupils will be able to:
- IDENTIFY input and output devices are;
- DESCRIBE the features and functions of digital devices;
- IDENTIFY different input and output devices;
- APPLY different devices to a range of scenarios.

UDW 2

Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Explain and describe different types' uses' features of networks and how data is transmitted.	Understand and investigate different types data can be transmitted and and describe different types of latency/bandwidth.	Explain how online systems work and develop my exam technique for answering questions.	Investigate and explain the uses of online communities/ develop exam technique.	Answering and developing understanding to answer exam questions and develop exam technique.	Describe the features of software systems; USE to protect, IT systems and explain the impact on legislation on IT systems.	Develop exam technique for answering questions and peer/self marking to develop a deeper understanding of exam marking.

Pupils will know:
- how to DESCRIBE the features and uses of a network;
- how to DESCRIBE bandwidth and latency;
- how to DESCRIBE the threats to data and information systems.

Pupils will be able to:
- EXPLAIN the impact of legislation on IT systems;
- DEVELOP my exam technique by answering exam style questions on networks and online communities;
- ANSWER exam questions on related topic and begin to self/peer/mark work for further understanding.

UDW 3

Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21
Develop my exam technique by answering exam questions on topics I have covered for revision and further understanding to prepare for my exam.		Explain the purpose and constraints of web design and explain the purpose requirements for websites.	Identify ideas and create mood boards and storyboards.	Review learning and start to create a test plan; identify and understand legal and ethical considerations.	Develop skills in HTML and identify interactive components.	Develop CSS and HTML styles and evaluate the website using user feedback.

Pupils will know:
- how to IDENTIFY features and implications of online surveys;
- how to use and manipulate data;
- how to EXPLAIN the purpose and principles of a website.

Pupils will be:
- EXPLAIN the purpose and principles of a website;
- EXPLAIN factors affecting website performance;
- IDENTIFY media and objects in a website.

UDW 4

Week 22	Week 23	Week 24	Week 25	Week 26	Week 27	Week 28
Evaluate website design against by client requirements and evaluate my optimised website against client requirements.	Respond to formative comments made by my tutor and make recommended changes to enhance the sensitivity of my website.	Demonstrate individual responsibility, creativity and effective self-management in the design, development and review of my website; RESPOND to formative comments made by my tutor for assessment criteria BC.D3.			Development of website and review aspects to enhance web performance.	RESPOND to formative comments made by my tutor for assessment criteria C.P4, C.P5, C.P6, C.M3 and BC.D3.

Pupils will know:
- how to use HTML to CREATE a website;
- how to use CSS to CREATE a website;
- how to show effective self-management in the design, development and review of a website.

Pupils will be:
- CREATE a website using HTML;
- manipulate a website using CSS;
- optimise a website.

UDW 5

Week 29	Week 30	Week 31	Week 32	Week 33	Week 34	Week 35
Exam weeks for resits	course evaluation and pupil voice survey					

Pupils will know:
- how to develop exam technique for resit units.

Pupils will be able to:
- answer short and long style exam questions for unit 1;
- practice for the database resit for unit 2.