

Co-op Academy North Manchester - Year 10 Business & Computing Curriculum

Jump to: [Business](#)
[Computer Science](#)
[Digital IT](#)
[Enterprise](#)

GCSE Business	HT1	HT2	HT3 / 4	HT5	HT6
Topic(s)	Enterprise and Entrepreneurship	Spotting a business opportunity	Putting business ideas into practice	Making a business effective	Influences on business
Knowledge	The dynamic nature of business Entrepreneurship Risk and Reward Business Enterprise	Customer Needs Market Research Market Segmentation The competitive environment	Business aims and objectives Business revenue, costs and profits Break even Cash and cash flow Sources of business finance	The options for small businesses Business location The Marketing Mix (Product, Price, Promotion and Place) Business Plans	Business stakeholders Technology and business Legislation and business The economy and business External influences
Understanding: Concepts / Disciplinary Knowledge	Explain the role of business enterprise and the purpose of business activity in terms of producing goods or services and meeting customer needs Explain how businesses add value through convenience, branding, quality, design and creating a unique selling point Understand the impact of risk on business activity	Evaluate ways that a business meets customer needs including price, quality, choice and convenience Analyse the impact of meeting customer needs on a business in terms of generating sales and ensuring survival and growth Justify appropriate methods of conducting market research to ensure appropriate and	Explain and give examples to demonstrate the difference between a business aim and a business objective and give examples of appropriate aims and objectives for a given business Understand that business start-ups are likely to have different aims and objectives than established businesses Understand that financial aims and objectives for start-ups will differ from non-financial aims and objectives Give examples of appropriate financial and non-financial aims for business start-ups Explain why businesses have different aims and objectives, supported with appropriate examples	Evaluate forms of ownership for different business contexts, considering the implications of liability Analyse and evaluate the factors of location for different businesses Evaluate how the elements of the marketing mix work together: Evaluate the purpose of a business plan in	Evaluate the relationship a business has with its stakeholders, in terms of managing conflicting interests and objectives Evaluate the influence of technology on business activity Analyse the implications of business legislation on businesses Evaluate the impact of the economic climate on business activity

Co-op Academy North Manchester - Year 10 Business & Computing Curriculum

	<p>in terms of business failure, financial loss and lack of security</p> <p>Understand the potential rewards of business activity including business success, profit and independence</p> <p>Analyse the different ways that business add value to the products or services</p> <p>Evaluate the role of an entrepreneur in starting and growing a successful business</p> <p>Analyse reasons why a business might fail</p> <p>Evaluate the importance of being able to respond and adapt to a dynamic business environment</p>	<p>reliable data is collected</p> <p>Evaluate the use and limitations of market mapping to identify gaps in a market</p> <p>Evaluate the impact of competition on business decision making</p>	<p>Explain, give examples, and calculate business revenue, fixed costs, variable costs and total costs</p> <p>Calculate profit or loss for a business</p> <p>Understand that interest rates change as the risk changes</p> <p>Calculate complex interest questions</p> <p>Explain examples of circumstances when businesses may save money or borrow money</p> <p>Plot and understand a break-even graph</p> <p>Identify the break-even output, the margin of safety (if one exists) and any loss or profit</p>	<p>minimising risk and obtaining finance</p>	<p>Evaluate the possible responses by a business to external influences</p>
Homework	Online Quizzes / Paper Based	Online Quizzes / Paper Based	Online Quizzes / Paper Based	Online Quizzes / Paper Based	Online Quizzes / Paper Based
Assessment	Exam using the range of skills from this half term	Exam using the range of skills from this half term	Exam using the range of skills from this half term	Exam using the range of skills from this half term	Exam using the range of skills from this half term
CEAIG	Business Development Manager	Business Development Manager	Marketing Manager	Investment Analyst	Actuary
How to help at home	Discuss your child's business idea and how they could achieve it	Students can access Seneca to build on existing	Take a walk around your local area and note which businesses have set up within the locality. Discuss	Take the skills test to see what your ideal job is!	Discover a world of business activities that your child

Co-op Academy North Manchester - Year 10 Business & Computing Curriculum

	Use their revision guide to revise for upcoming assessments Click here	knowledge. Click here Use their revision guide to revise for upcoming assessments Click here	these businesses with your child and ask them why they think they have decided to set up their business there. Use their revision guide to revise for upcoming assessments Click here	Click here Use their revision guide to revise for upcoming assessments Click here	can do independently using the following link: Click here Use their revision guide to revise for upcoming assessments Click here
Wider Reading	The Young Entrepreneur's Guide to Starting and Running a Business: Turn Your Ideas into Money! By Steve Mariotti	What is a business development manager? Click here	How to Start Your Very First Business: by Warren Buffett	What is an investment analyst? Click here	What is an actuary? Click here

Enterprise	HT1 / 2	HT3 / 4	HT5 / 6
Topic(s)	Exploring Enterprises	LIVE PSA Windows 1	Planning and Presenting a Micro Enterprise Idea
Knowledge	Size and features of SMEs Sectors and business models Aims and Objectives of enterprises Skills and characteristics of entrepreneurs Primary market research methods Secondary market research methods Understanding customer needs Understanding competitor behaviour Suitability of market research methods Political and Economic factors	The assignment for this component consists of three tasks. <ul style="list-style-type: none"> In response to Task 1, learners will use the information provided on the sectors to select and research an appropriate enterprise and their associated entrepreneur(s), exploring how the activities of the enterprise and the skills and characteristics of the entrepreneur(s) help the enterprise to achieve their aims. In response to Task 2, learners will investigate the market research methods currently used by their chosen enterprise and explore the information this 	Choosing ideas for a micro enterprise Structure aims and objectives Marketing Finance Risk assessment Production of presentations Delivery of presentations Reviewing of presentations

Co-op Academy North Manchester - Year 10 Business & Computing Curriculum

	<p>Social and technological factors</p> <p>Strengths and weaknesses</p> <p>Opportunities and threats</p>	<p>provides the enterprise on their customers and competitors, making</p> <p>recommendations for improvements to these methods.</p> <ul style="list-style-type: none"> • In response to Task 3, learners analyse PEST and SWOT factors to make supported judgements on the actions the enterprise could take and make <p>supported judgements on opportunities and threats as a result.</p>	
<p>Understanding: Concepts / Disciplinary Knowledge</p>	<p>Explore the activities enterprises undertake and the characteristics and skills of the entrepreneurs that run them.</p> <p>Understand the different sectors and business models and how their aims and objectives impact the activities to support enterprises</p> <p>Understand the reasons why entrepreneurs start their own enterprise / impact of the skills and characteristics to support the aims.</p> <p>Understand the benefits and drawbacks of a range of primary research methods used by enterprises.</p> <p>Understand customer needs - the importance of the information that primary and secondary research methods can provide information about customers.</p> <p>Understand competitor behaviour - understanding the market and competitive advantage</p> <p>Explore the suitability of market research methods that could help the enterprise in gaining information</p> <p>Make recommendations for actions that enterprises could</p>	<p>During the beginning of this half term students will complete a mock assessment for component 1. Students will complete the PSA which was released in October as a trial assessment. Students will be provided with 6 hours of monitored preparation time and 5 hours of supervised assessment time</p> <p>After the mock has been completed and the PSA for February has been released students will complete the live assessment for component 1. Students will be provided with 6 hours of monitored preparation time and 5 hours of supervised assessment time</p> <p>This assessment is worth 30% of the students final grade in Y11</p>	<p>Generating ideas and choosing or rejecting ideas that may contribute to the likely success of an enterprise idea</p> <p>Draw on research to complete an accurate and realistic business plan for their chosen micro-enterprise idea within a given budget:</p> <p>Selection of relevant information and logical sequencing of information and ideas.</p> <p>Deliver an effective business presentation</p>

Co-op Academy North Manchester - Year 10 Business & Computing Curriculum

	<p>take based on research and analysis of the given factors / analyse the suitability of recommendations according to positive and negative impacts on costs and revenues</p> <p>Analyse the impact of the strengths, weaknesses, opportunities and threats based on research, analysis and understanding of enterprises / analyse the ability to react to the strengths, weaknesses, opportunities and threats according to the potential positive and negative impact on costs and revenues.</p>		
Homework	Online Quizzes / Paper Based	Online Quizzes / Paper Based	Online Quizzes / Paper Based
Assessment	Exam(s) using the range of skills from this half term	Completion of the Live PSA Task 1	Exam using the range of skills from this half term
CEAIG	Business advisor	Business advisor	Marketing Manager
How to help at home	<p>Discuss your child's homework with them and support where possible</p> <p>Use their revision guide to revise for upcoming assessments Click here</p>	<p>Support them in preparing for their controlled internal assessment.</p> <p>Use their revision guide to revise for upcoming assessments Click here</p>	<p>Discuss your child's homework with them and support where possible</p> <p>Use their revision guide to revise for upcoming assessments Click here</p>
Wider Reading	What is a business advisor? Click here	How to support your child through their GCSEs Click here	What is a marketing manager? Click here

BTEC Digital IT	HT1 / 2	HT3 / 4	HT5 / 6
Topic(s)	User Interface, Design Principles and Project Planning Techniques	LIVE PSA Windows 1	Collecting, Presenting and Interpreting Data
knowledge	<p>User Interfaces</p> <p>Factors and Influences</p> <p>Audience Needs</p>	<p>The assignment for this component consists of four tasks.</p> <ul style="list-style-type: none"> In response to Task 1, learners will complete a project proposal template using a project proposal brief, taking into consideration the purpose and audience, project 	<p>Characteristics of data and information</p> <p>Representing information</p> <p>Ensuring data is suitable</p>

Co-op Academy North Manchester - Year 10 Business & Computing Curriculum

	<p>Design Principles</p> <p>Design Psychology</p> <p>Designing efficient user interfaces</p> <p>Project Planning Techniques</p> <p>Creating project plans</p> <p>Initial designs</p> <p>Developing a user interface</p> <p>Refining a user interface</p>	<p>requirements, user accessibility needs and any constraints. They will use software to create a project plan using project planning and design methodologies and taking into consideration the project proposal brief and overall timescales for the project.</p> <ul style="list-style-type: none"> • In response to Task 2, learners will design an initial user interface for four screens of a user interface that meet user requirements and user accessibility needs and other specific hardware and software needs and design considerations. • In response to Task 3, learners will use their initial design to develop a working prototype of the four screens of the user interface that meet user requirements and user accessibility needs. • In response to Task 4, learners will review their user interface and project planning techniques. Their review will be against the following criteria – user requirements, ease of use, design principles and accessibility features. In addition, learners will suggest improvements to better meet audience needs. 	<p>Data collection</p> <p>Quality of information and impact</p> <p>Sectors that use data modelling</p> <p>Spreadsheets basics</p> <p>Data manipulation methods</p> <p>Other processing methods</p> <p>Producing a dashboard</p> <p>Pivot Tables</p> <p>Concluding and reviewing presentation methods</p>
<p>Understanding: Concepts / Disciplinary Knowledge</p>	<p>Understand the different types of interface and how they vary across uses, devices and platforms</p> <p>Understand the varying needs of the audience and how they affect both the type and the design of the interface.</p> <p>Understand how design principles provide both appropriate and effective user interaction with hardware devices.</p> <p>Understand the techniques that can be used to improve both the speed and access to user</p> <p>Understand project planning techniques used to develop</p>	<p>During the beginning of this half term students will complete a mock assessment for component 1. Students will complete the PSA which was released in October as a trial assessment. Students will be provided with 6 hours of monitored preparation time and 5 hours of supervised assessment time</p> <p>After the mock has been completed and the PSA for February has been released students will complete the live assessment for component 1. Students will be provided with 6 hours of monitored preparation time and 5 hours of</p>	<p>Understand how data is collected and used by organisation and its impact on individuals</p> <p>Understand the concepts of data and that data is meaningless without converting it into information by adding structure and context.</p> <p>Understand the different ways of representing information and will be able to explain situations where they would be used</p> <p>Understand the methods that can be used to ensure data input is suitable and within</p>

Co-op Academy North Manchester - Year 10 Business & Computing Curriculum

	<p>a project proposal and project plan for the development of a user interface for a given brief.</p> <p>Understand how to produce an initial design using design principles.</p> <p>Understand how to use their design to produce a user interface.</p> <p>Understand how to review the success of the user interface and the use of their chosen project planning techniques</p>	<p>supervised assessment time</p> <p>This assessment is worth 30% of the students final grade in Y11</p>	<p>boundaries so that it is ready to be processed</p> <p>Understand the different types of data collection methods, the strengths and weaknesses of each, how data collection features affect its reliability and how the collection of data could be improved</p> <p>Understand the factors that affect the quality of information and how different types of data are used by organisations for data modelling.</p> <p>Understand the different threats that face individuals who have data stored about them.</p>
Homework	Online Quizzes / Paper Based	Online Quizzes / Paper Based	Online Quizzes / Paper Based
Assessment	Exam(s) using the range of skills from this half term	Completion of the Live PSA Task 1	Exam using the range of skills from this half term
CEAIG	User experience (UX) designer	User experience (UX) designer	Data Scientist
How to help at home	<p>If students have access to a laptop/PC they can create their own websites using the free software: https://www.wix.com/</p> <p>Use their revision guide to revise for upcoming assessments Click here</p>	<p>Support them in preparing for their controlled internal assessment.</p> <p>Use their revision guide to revise for upcoming assessments Click here</p>	<p>If students have access to a laptop/computer please allow them to explore Google Sheets</p> <p>Use their revision guide to revise for upcoming assessments Click here</p>
Wider Reading	Web Design for Teens by Maneesh Sethi	How to support your child through their GCSEs Click here	What is a data scientist? Click here

GCSE Computer Science	HT1	HT2	HT3	HT4	HT5/6
Topic(s)	Systems Architecture	Data Representation	Networks	Network Security & Systems Software	Impacts of Digital Technology

Co-op Academy North Manchester - Year 10 Business & Computing Curriculum

<p>Knowledge</p>	<p>Architecture of the CPU CPU Performance Memory Secondary Storage</p>	<p>Units and Binary numbers Binary arithmetic Hexadecimal Characters Images Sound Compression</p>	<p>The internet Wide Area Networks Local Area Networks Client Server and Peer to Peer Standards protocols and layers</p>	<p>Network Threats Preventing Vulnerabilities Operating Systems Utility Software</p>	<p>Ethical and cultural issues Environmental issues Legislation and privacy</p>
<p>Understanding: Concepts / Disciplinary Knowledge</p>	<p>Understand the purpose of the CPU including the fetch-execute cycle. Understand the role/purpose of each component and what it manages, stores, or controls during the fetch-execute cycle whilst developing their knowledge of the purpose of each register, what it stores (data or address). Understand how the cache, cores and clock speed can affect CPU performance. They will be introduced to the role of each characteristic as listed in the specification) whilst learning about what</p>	<p>Define the terms bit, byte, kilobyte, megabyte, gigabyte Understand that data needs to be converted into a binary format to be processed by a computer Add two 8-bit binary integers Understand the term 'character set' Understand how a bitmap graphic is made up of individual pixels Explain how each pixel is represented in binary Convert between binary, denary and hexadecimal</p>	<p>Define both types of networks and describe the differences Describe the nature of the Internet as a worldwide collection of computer networks Describe star and mesh network topologies Understand wireless modes of connection and explain the need for Wireless Access Points to create wireless hotspots Describe the factors that affect network performance Describe the uses of communications</p>	<p>Understand a variety forms of attack and threats the pose to a network Identify and understand the prevention of vulnerabilities Identify and understand the prevention of vulnerabilities including the use of: penetration testing user access levels Encryption Describe the purpose and functionality of common utility software</p>	<p>List ethical issues, cultural issues and environmental issues in relation to a given scenario List items of legislation that relate to digital technology Discuss the impacts of digital technology on the wider society including ethical issues, cultural issues and environmental issues Discuss the impact of manufacture, disposal, upgrading and replacing digital technology Discuss the impact of e-waste Discuss the impact of digital technology regarding legal issues and privacy issues Describe legislation relevant to Computer Science including The Data Protection Act 2018 Computer Misuse Act 1990 Copyright Designs and Patents Act 1988 Describe the features of open source and</p>

Co-op Academy North Manchester - Year 10 Business & Computing Curriculum

	<p>embedded systems are and their typical characteristics are.</p>	<p>equivalents of the same number</p> <p>Understand that the number of bits per pixel determines the number of available colours for an image</p> <p>Explain how sampling intervals and resolution affect the size of a sound file using the terms:</p> <p>Understand how sound is sampled and stored in digital form</p>	<p>protocols including: HTTP and HTTPS and how encryption works to secure the network</p> <p>Describe the use of communications protocols</p> <p>Explain the role of computers in client-server and peer-to-peer networks with advantages and disadvantages</p>		<p>proprietary software licences</p> <p>List the clauses of the Data Protection Act and Computer Misuse Act and give examples of situations in which they are relevant</p> <p>Evaluate the impact of and issues related to the use of computers in society</p>
Homework	Online Quizzes / Paper Based	Online Quizzes / Paper Based	Online Quizzes / Paper Based	Online Quizzes / Paper Based	Online Quizzes / Paper Based
Assessment	Exam using the range of skills from this half term	Exam using the range of skills from this half term	Exam using the range of skills from this half term	Exam using the range of skills from this half term	Exam using the range of skills from this half term
CEAIG	Systems Analyst	Web developer	Network Manager	Cyber Intelligence Officer	Media Researcher
How to help at home	<p>Students can access Seneca to build on existing knowledge. Click here</p> <p>*If you do not have access to a computer with an internet connection at home your child could visit the local</p>	<p>Test out your child's knowledge of binary with some maths games! Your child will show you how to use the binary table</p>	<p>What is a network article? Click here</p>	<p>Encourage students to use their revision guides to complete the network security section in their white workbook</p>	<p>Encourage your child to read the technology section on the BBC News website. This section includes numerous articles on ethics.</p>

Co-op Academy North Manchester - Year 10 Business & Computing Curriculum

	library to use one.				
Wider Reading	OCR Computer Science Revision Guide Click here	Binary Puzzle: 400 Easy to Hard (10x10) Puzzles by Various Click here	Help your kids with computer science book by DK Waterstones store	What is a cyber intelligence officer? Click here	BBC News Technology section - Click here for up to date stories including how Ed Sheeran's songs were corrupted