



IT

Business/ ICT

KS4

Curriculum Details

Year 10

Content

Homework

Parent / Carer Support

Paper 1 - 1 hour and 45 minutes. IT in Every Day Life, Human Computer Interaction (HCI), SMART Technologies, Internet of Everything (IoE), Design Tools, Cyber Security, Digital Communications, Data and Testing
(Examination Jan/May).

Knowledge and understanding will be directly assessed through an exam. Questions will test knowledge and understanding and the ability to apply understanding and draw on the experience gained from developing the skills.

Students will use their learning in practical, real-life situations, such as:

- using different applications and tools to design, create and evaluate IT solutions and products
- creating a data manipulation solution
- creating an Augmented Reality prototype. This will help you to develop independence and confidence in using skills that would be relevant to the IT sector. The qualification will also help you to develop learning and skills that can be used in other life and work situations, such as:

- Planning and designing IT solutions and products for a given purpose
- Selecting the best tools and techniques to solve a problem
- Solving problems by exploring different software application tools and techniques
- Creating IT solutions and digital products
- Use of planning techniques to complete tasks in an organised and timely way
- Finding imaginative ways to solve IT problems

R050: IT in the digital world This is assessed by taking an exam. In this unit you will learn about design and testing concepts for creating an IT solution or product, and the uses of IT in the digital world.

Topics include:

- Design Tools
- Human Computer Interface (HCI) in everyday life
- Data and testing
- Cyber-security and legislation o Digital Communications
- Internet of Everything (IoE).

(All modules) Students will be given regular homework consisting of exam questions and homework related to the topic area. At key points your child will complete end of topic assessments.

As a department we encourage parents/carers to support learning in a number of ways.

Organisation: encourage your child to check that they have all the equipment they need in their school bag the night before; look at completed work; encourage your child to plan their work; encourage your child to read around the topic; show an interest in the work your child is completing and talk to them about it.

Revision: encourage active revision using the educa8 virtual learning environment set up by the department. Access and use past papers and mark schemes (these will be provided); design posters of key information and talk through ideas that your son/daughter finds difficult.

Study Guides, Resources & Extra Support

OCR – IT revision guide available on squid. Past papers and schemes of work. Websites: Educa8 (VLE), BBC GCSE bitesize. OCR IT website - past papers [Cambridge Nationals - IT Level 1/2 – J836 - OCR](#)



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Curriculum Details

Year 11

	Content	Homework	Parent / Carer Support
<p>IT (60% of the overall qualification from Sep- May)</p> <p>R060 – Data Manipulation using Spreadsheets (30% of the overall qualification, Year 2 - Apr -Dec)</p> <p>NEA Assessment - Students are required to plan and design, create, test and review the spreadsheet solution for the particular context.</p> <p>R070 – Using Augmented Reality (AR) to Present Information (30% of the overall qualification, Year 2 - Jan - May)</p> <p>NEA Assessment - Students are required to plan and design, create, test and review their Augmented Reality (AR) model prototype solution for the particular context</p>	<p>This assessment focuses on how effectively learners use their skills when developing a technological solution(s).</p> <p>R060 - Spreadsheet applications are commonly used to create input, processing and output solutions which manipulate data. In this unit students will learn the skills to be able to plan and design a spreadsheet solution to meet client requirements. They will be able to use a range of tools and techniques to create a spreadsheet solution based on your design, which you will test. They will be able to evaluate their solution based on the user requirements.</p> <p>R070 - In this unit students will learn the basics of Augmented Reality (AR) and the creation of a model prototype product to showcase how it can be used appropriately for a defined target audience to present information. They will also learn the purpose, use and types of AR in different contexts and how they are used on different digital devices. Students will develop the skills to be able to design and create an AR model prototype, using a range of tools and techniques. They will also be able to test and review their AR model prototype.</p>	<p>(All modules) Students will be given regular homework consisting of exam questions and homework related to the topic area. At key points your child will complete end of topic assessments.</p>	<p>As a faculty we encourage parents/carers to support learning in a number of ways.</p> <p>Organisation: encourage your child to check that they have all the equipment they need in their school bag the night before; look at completed work; encourage your child to plan their work; encourage your child to read around the topic; show an interest in the work your child is completing and talk to them about it.</p> <p>Revision: encourage active revision using the educa8 virtual learning environment set up by the department. Access and use past papers and mark schemes (these will be provided); design posters of key information and talk through ideas that your son/daughter finds difficult. Purchase a subject revision guide, attend P6 support sessions.</p>

Study Guides, Resources & Extra Support

OCR - Revision guide available on squid. Past papers and schemes of work. Websites: Educa8 (VLE), BBC GCSE bitesize. OCR IT website - past papers [Cambridge Nationals - IT Level 1/2 – J836 - OCR](#)



The Kimberley School - KS4 Learning Journey

Information Technology and Computing

OCR
Oxford Cambridge and RSA

