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| Information Technology | **Curriculum Team Vision** |
| At OMA we believe education is for everyone, that all students irrespective of their backgrounds, will be exceptional pupils, so they are equipped with the necessary knowledge, skills, qualifications, and mind-set to contribute positively to society.   Everything we do in the vocational faculty is aimed at providing an ambitious and challenging curriculum which inspires, motivates, and exploits the limitless potential of all our students. This will be achieved by us ‘*being inspired by the past - creating excellence in the present- by embracing the future’.*    Our long-term aim is to produce thinking, adaptable adults capable of taking his / her place in a changing technological society. We strive to create distinctive and dynamic partnerships between students and the world or work, forging active relationship with industry-based external training providers and employers.    The vocational curriculum seeks to promote an educational culture which is scientific, technological, creative, healthy, and entrepreneurial within the framework of the school and national curriculum. In addition, our faculty aims to provide the excellent practical technological, scientific, and holistic communication skills needed by our manufacturing and service industries within the UK and global markets. Thus, ensuring that our students will be well-educated and skilled, ready, and able to progress into employment, further training, or higher education according to their individual aptitudes and ambitions.    The faculty will be truly cross-curricular and will use aspects of many subjects to aid the students when developing innovative ideas and solving problems individually or as a team. The only boundary to making an impact in the future is our ‘*imagination*’ and our ability to ‘*engineer’* the solutions that could affect peoples’ lives. Students arrive and leave our faculty with a sense of wonder in learning…. that they will carry with them for a lifetime.   **Pupils should be taught to:**  The aims we have for students are:For all students to understand and apply the fundamental principles and concepts of computer science, including:- Abstraction, - Logic, - Algorithms- Data representation - Analyse problems in computational terms, - Practical experience of writing computer programs in order to solve such problems Students will be responsible, competent, confident and creative users of information and communication technology. **YEAR 7:**   Curriculum aims to introduce students to using the internet safely (e-Safety) and be able to undertake effective independent/self-guided research to support their class work and homework and become responsible digital citizens. Students should be able to remain safe when using the Internet and understand how to behave towards others. The students are also expected to begin to use tools effectively in Chrome, apply and use Binary Coding. Understand Networks  **YEAR 8:**  Curriculum aims to build on the skills acquired in year 7 and extend students’ understanding of the way computers are used to help build and promote enterprises through a range of research and creative designs in marketing. Students will then analyse data using a range of tools used in Microsoft Excel. **Year 9:** The curriculum aims to build on skills learnt in Year 7 and 8 and introduces more specific software including: Sketchup that engineers use and Python, which is used for Game and Software developers. |
| **Where can studying IT take you? Click on the link below:**<https://uk.indeed.com/IT-Support-jobs-in-Grimsby?vjk=15f3640f0b3edab2>* IT consultant.
* Health IT specialist.
* Software engineer
* Data **Analyst** Data Scientist,
* IT Trainer Teacher
* Computer Forensic **Analyst**
* IT Security Co-ordinator or Specialist.
* IT Helpdesk **Analyst**
* IT Support Engineer.
* Database Administrator Software Engineer
* Developer Software Tester.
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| Subject: I.T. Year 9 Curriculum Map 2024-2025 |
| Terms | **Topics covered** and **core knowledge and skills** | Links to careers | Links to the Knowledge organiser and other additional resources |
| Half term 1 | **Expectations in an IT room**Physical aspects linked to ergonomics and health and safety aspects**E-Safety**Online Safety, recognising a safe website and understanding some of the online dangers that exist.**Cyberbullying**Different types of Cyberbullying and steps that should be taken.**Importance of organisation within the computer**This includes files and folder creation as well as Header and Folder Skills**Snip It Tool**To understand how to crop and remove part of the image that you don’t want and use as part  | <https://uk.indeed.com/jobs?q=e-safety%20IT%20Support&l=Grimsby&vjk=582338d5a1a11dec> | This link would take you to the KO on our website [Term1 KO](https://herefordts.sharepoint.com/%3Ap%3A/s/VocationalDepartmentDrive/Ed-FBUeoz3FLlDXmtkQdl9gBCWhlOA3-7Zg1W2YGbT62cg?e=pSZnf3) |
| Half term 2 | **Office 365**Understand how to access online platform to **MS Word Skills**Understanding key skills and short cuts.**Review Skills**Understanding how to take a step back and look at your work in a critical manner to understand how you can improve and what went well.**Presentation Skills**PowerPoint presentation skills, understanding transition, animation and hyperlinks | <https://uk.indeed.com/jobs?q=IT%20Jobs&l=Grimsby&vjk=9d109a3422c3fd26> | This link would take you to the KO on our website[Term 2 KO](https://herefordts.sharepoint.com/%3Ap%3A/s/VocationalDepartmentDrive/EVENwLuZMNxMsgHIUvSzgDsBU1IJ1ismlhI76uqXkSMvnw?e=dta8eO) |