World-class learning
Every lesson, every day

The highest expectations
Everyone can be successful; always set and expects the highest standards

No excuses
Create solutions not excuses; make positive thinking a habit

Growth mindset
Believe you can improve; work hard and value feedback

Never give up
Resilience is essential; be relentless in the pursuit of excellence

Everyone is valued
Diversity is celebrated; see the best in everyone

Wath Sixth Form Subject Preparation Pack

LEVEL 3 CAMBRIDGE TECHNICALS
INTRODUCTORY DIPLOMA IN IT
Contents

- What is the Cambridge Technicals Introductory Diploma in IT?
- Why should I study the Cambridge Technicals Introductory Diploma in IT?
- What careers could the Cambridge Technicals Introductory Diploma in IT lead to?
- What will I study?
- How will I be assessed?
- Meet the team
- Recommended resources

What is the Cambridge Technicals Introductory Diploma in IT?

The Cambridge Technicals Introductory Diploma in IT is a vocational Level 3 course. It is slightly different to a BTEC or traditional A-Level course but UCAS points are still generated in the same way. The course consists of two external examinations and three pieces of coursework. These five sections are combined to generate an overall grade which can then easily be converted into UCAS points as below.

Distinction Star = 56 points (equivalent to an A*)
Distinction = 48 points (equivalent to an A)
Merit = 32 points (equivalent to an B)
Pass = 16 points (equivalent to an E)

Why should I study the Cambridge Technicals Introductory Diploma in IT?

You might have an interest in IT but not necessarily on the coding side.

You might enjoy the opportunities that ICT bring and wish to find out more about how it is used globally.

You might be interested in an IT related course at university or interested in IT related employment.

On this course we look at IT fundamentals used all over the world and focus on the Internet of Everything and Virtual/Augmented Reality for two of the three coursework units. The course is designed to provide you with a range of specialist knowledge and transferable skills in the context of applied IT.

What careers could the Cambridge Technicals Introductory Diploma in IT lead to?

Previous students studying the course have moved on to a range of IT related University courses/apprenticeships, following this they can then move on to a wide range of IT related roles such as technical support, working within digital technologies, application development or data analysis.
What will I study?

At Wath Academy we cover the *Emerging Digital Technology Practitioner* pathway which covers a breadth of knowledge split across **two exam** papers and **three coursework** units.

**Examinations:**

- **Unit 1 – Fundamentals of IT (90 minutes, 80 marks)**
  - This exam is about IT in general. You will be tested on:
    - Computer hardware.
    - Computer software.
    - Business IT systems.
    - Employability and communication skills used in an IT environment.
    - Ethical and operational issues and threats to computer systems.

- **Unit 2 – Global Information (90 minutes, 80 marks)**
  - The exam is based around a pre-release topic set by the exam board. You will be tested on:
    - Where information is held globally and how it is transmitted.
    - The styles, classification and the management of global information.
    - The use of global information and the benefits to individuals and organisations.
    - The legal and regulatory framework governing the storage and use of global data.
    - The process flow of information.
    - The principles of information security.

**Coursework:**

- **Unit 5 - Virtual and Augmented Reality**
  - In this unit you will:
    - Understand virtual and augmented reality and how they may be used.
    - Design virtual and augmented resources.
    - Create an augmented reality resource.
    - Predict future applications for virtual and augmented reality.

- **Unit 9 – Product Development**
  - This unit will be done alongside Unit 5. You will:
    - Understand the product development life cycle.
    - Design products that meet identified client requirements.
    - Implement and test products.
    - Carry out acceptance testing with clients.

- **Unit 17 – Internet of Everything**
  - For this unit you will:
    - Understand what is meant by the Internet of Everything (IoE).
    - Repurpose technologies to extend the scope of the IoE.
    - Present concept ideas for repurposed developments.

How will I be assessed?

The two external examinations are worth 50% of the course, the three coursework units are worth the remaining 50% of the course. The units are internally marked and grades are checked by an external moderator.

In Y12 you will sit both examinations (one in January, one in May) and complete Unit 17.

In Y13 you will have the option to resit both examinations in January if necessary and will also complete the remaining two coursework units.
Meet the staff

If you choose to study Business, ICT, Computer Science or Economics next year you may be taught by the following staff.....

Head of Faculty/Associate Assistant Vice Principal - Mrs Schofield

I have a real passion for the subjects I teach and, the best part is, I have the opportunity to instil this enthusiasm in the students I teach every day!

I teach Business, Economics and ICT. These are subjects that allow us to explore what has happened in the past, what is happening now and predict what could happen in the future. It’s great to see how one new product innovation can spark so much detailed discussion and interest amongst students. These are subjects that do not stand still but are constantly evolving and it’s exciting to be part of exploring, sharing and discussing the world we live in.

Really looking forward to meeting you all in September.

Head of ICT and Computer Science – Mr Wilby

We live in a constantly changing world that heavily relies upon computers and ICT. Technology has undoubtedly enriched our lives pulling countries closer together and expanding our knowledge and understanding of what happens around us through the development of electronic devices and the global sharing of information. I have already seen many technological advancements in my lifetime and following these developments and predicting future technologies through analysis with students is something I greatly enjoy.

I believe IT & Computer Science covers such a vast range of topics that there is something within its multiple possible pathways that will appeal to all. We offer creative, technical, ‘hands on’ and theoretical approaches, there is something for everyone and that’s why I love teaching the subject.

Head of Business and Economics and teacher of ICT – Mrs Dunkerley

I currently teach Business and ICT and have been at Wath for over 12 years now, I still really enjoy working at Wath and love the community and friendly feel within the school. I myself fell in love with Business at GCSE level and went on to study Business and Finance at university, where I found I particularly enjoyed the ICT modules. What I relish about teaching both Business and ICT is that both subjects constantly change so topics can be made fun, engaging and link perfectly to the real/outside world. Like with all students, I really look forward to seeing you in the classroom in September!
Teacher of Economics/Business/KS3 manager – Mr Senior

My name is Mr Senior and I've been teaching Business & Economics at Wath since 1991!! I graduated with BA (Hons) Economics from Wolverhampton University and went on to complete a PGCE qualification at Sheffield Hallam.

I love teaching Business and Economics, as it is a real window into the real world for students who haven’t had much experience of life outside school. It’s great to be able to pass on the skills and knowledge that students need to go on and succeed after school, whether at university or in a workplace. My favourite aspect of the subject area is looking at the effects of real-life events from a business/economic perspective. The Coronavirus outbreak, for example, will be remembered long after we’re gone for its impact on not only the health of the world’s population but for the economic damage that the world being in lockdown will have caused. Seeing students make the links between such events and the wider impact and knowing that I’ve helped them to develop those skills is really rewarding.

I've taught literally hundreds of Sixth Form students and seen so many of them grow into critical thinkers and successful adults over the years. Many of them have gone on to have careers in business/economics and one or two are millionaires!!

Teacher of Business and ICT – Mr Machon

I would describe myself as an approachable yet creative teacher who thrives on getting the best out of all students. Past students would describe me as a joyful yet focused teacher who really creates an enjoyable climate for all. I love Business because it gives you a real sound chance of applying content and knowledge into real-life examples looking at inspirational organisations such as Apple, Sony and Netflix. I have huge passion for Business and love how many unique opportunities it can open for everyone. As well as having a huge interest in Business, I also thoroughly enjoy ICT especially the development of planning, creating and evaluating games. This is because it is very visual and exciting, and therefore having the knowledge of programming brings many different unique opportunities.

Teacher of Computer Science/ICT/Business – Mr Roberts (Joining us in September 2020).

For several years I ran my own business but very much look forward to getting into the classroom and inspiring students! I think my real-world business experience will help me to help you learn and understand the work we will be covering. Like most of you, I like to keep up to date with all the latest technology and the workings of it. My lessons will be fun, interactive and incorporate technology as much as possible. In this ever changing and fast paced world we live in, it’s important to learn about the link between computing and business; hopefully my students will be just as interested as I am!

Recommended resources

Cambridge Technicals Level 3 IT official textbook

This textbook is useful when completing the examinations and coursework units. It is co-written by our current moderator.

The below websites prove useful in covering topics relating the examined units.

https://www.csnewbs.com/unit1
https://www.csnewbs.com/unit2