

# Creative Computing CTEC L3 IT Double

## Part A - Bridging Work Task

This is a fantastic opportunity to expand your understanding of Creative Computing CTEC L3 IT as you prepare for enrolment and start at Franklin in September.

Please complete the work and bring a copy to your enrolment, either printed or electronically.

The work will take you around 4 **hours** so plan your time to best suit you.

<b>How do I complete and submit my task?</b>	<p>Complete the tasks on paper/handwritten or digitally, and bring a copy, either paper or electronically, to your enrolment appointment. Also, bring this along to your first lesson in September.</p> <p>If you didn't attend the Taster Day, don't worry. It isn't essential for completing this work, but please ensure that you have completed this bridging work.</p>
<b>Introduction to your Bridging Task</b>	<p>The tasks will give you an introduction to the first topics you can expect to study in September from Unit 22 – Big Data.</p>
<b>Task details</b>	<p><b><u>Taster Day Task</u></b></p> <p>If you didn't manage to complete the work on Taster Day – please access a copy of the spreadsheet and follow the guidance provided in the Google Slides. If you missed Taster Day, please access both links below (make a copy of the spreadsheet).</p> <p><a href="#"><u>Google Slides</u></a> <a href="#"><u>Spreadsheet</u></a></p> <p><b><u>BRIDGING WORK TASK -</u></b></p> <p>Please complete the following task as a document (ideally an electronic version)</p> <p><b>LO1 Understand the scope and challenges of Big Data</b></p>

## P1 Outline what is meant by Big Data

1. You are required to define and outline the term 'Big Data.'
2. You should describe the "Big Four" identified in the teaching content below as well as setting out the main characteristics/points of each.

<b>Outline</b>	A description setting out main characteristics/points.
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For this work you need to outline what is Big Data. You then need to describe the four elements that make up Big Data (see the four below). There are a lot of websites available that provide information and some links to help are below.

Start each section with a definition of what the heading is and then describe how it can apply to big data.

As you are researching, remember that the command word used is outline, so you need to describe how it is used including any main characteristics or points that are associated with big data.

### **The Big Four:**

1. **Volume (i.e. scale of data)**
2. **Variety (i.e. different forms of data)**
3. **Velocity (i.e. analysis of streaming data)**
4. **Veracity (i.e. uncertainty of data)**

### **Resources to help you with the Bridging Task**

Please use the links below to complete the set tasks:

<https://www.spiceworks.com/tech/big-data/articles/what-is-big-data/>

<https://cloud.google.com/learn/what-is-big-data>

You can also use any other research sources and materials you wish.

### **Extension Tasks**

#### **Extension Tasks to stretch and challenge you**

If you have completed the above to the best of your ability, feel free to try this extension task (*this is optional*):

Explain in your own words what the term Digital Divide means. There are 3 types of Digital Divide, Gender Divide, Social Divide, and Universal Access Divide.

Select an example from one of the above and create a presentation explaining what factors can contribute to a Digital Divide e.g. low income, lack of access to technology, geographical restrictions. (think about Covid and the problems that caused from an educational view)

**Massive  
Open Online  
Courses  
(MOOCs)**

You might enrol on this online course and complete the following to push you a little further (this is optional):

- [Online Courses and Digital Marketing Training - Google \(grow.google\)](https://grow.google)

# Creative Computing CTEC L3 IT DOUBLE

## Part B – Preparing for Studying at Franklin

A fantastic opportunity to widen your understanding of the course.

**Examining  
Board and  
Specificatio  
n**

You will learn about hardware, software, networks, the ethical use of computers, how businesses use IT. You will also gain experience designing an analysis report from Big Data to meet the needs of a client brief. Analyse the needs of a client and develop skills in App Development to design and build a mobile phone app.

**We cover the following topics:**

- Unit 1 - Fundamentals of IT
- Unit 2 – Global Information
- Unit 3 – Cyber Security
- Unit 6 - Application Design
- Unit 9 – Product Development
- Unit 22 – Big Data
- Unit 13 – Social Media
- Unit 17 – Internet of Everything
- Unit 8 - Project Management
- Unit 15 – Games Design
- Unit 21 – Web Design

**Studying this course will give you a wide range of skills:**

This course provides our students with IT literacy, awareness of Green IT, understanding of mainstream software and spreadsheet applications and ability to use a client brief to design/create products.

**Progression after this course:**

	<p>This qualification will allow you to study at university or progress on to an Apprenticeship in a few different areas including Cyber Security.</p> <p>There are many different career fields that students go into after studying ranging from Big Data Analytics, App Production and Development etc.</p>
<b>Preparing for the course</b>	<p><b>Here are some helpful sources of information if you would like further information about the subject:</b></p> <p>Course textbook – <a href="#">Link</a></p> <p>Highly recommended revision book - <a href="#">My Revision Notes: Cambridge Technicals Level 3 IT: Amazon.co.uk: Everett, Maureen: 9781510442313: Books</a></p>