

BTEC Level 3 Extended Certificate in Information Technology

6th Form Bridging Pack

Outline Information

| Unit # | Unit Title | % of Qualification | Assessment Method |
|--------|--|--------------------|--------------------|
| 1 | Information Technology Systems | 33% | External (Exam) |
| 2 | Creating Systems to Manage Information | 25% | External (Project) |
| 3 | Using Social Media in Business | 25% | Internal |
| 6 | Website Development | 17% | Internal |

Key Preparation Content

Unit 1

Understanding features and uses of digital devices

- Investigate the following innovations:
 - Multifunctional Devices
 - Mobile Devices
 - Servers
 - HD/UHD
 - Navigation Systems
 - Data Capture
 - Entertainment Systems

Investigation:

For these devices it is important to know and understand:

- Features
- Innovations
- Target Audience
- Role / Position in Society (Education / Training / Social / Medical etc.)
- History
- Version creep (why do we get a new version every 9 months to a year?)

Know key technological terminology

- You need to know and be able to explain key technology terms:
 - Components
 - CPU
 - RAM
 - HDD
 - SSD
 - GPU
 - Interface Design
 - WYSIWYG
 - WIMP
 - HCI
 - GUI
 - Command Line
 - Software
 - OS
 - Apps
 - Networking
 - Utilities
 - Proprietary
 - Custom
 - Open Source
 - Drivers
 - Wifi
 - Bluetooth
 - LAN
 - WAN
 - Ethernet
 - Protocol
 - IP
 - MAC Address

Unit 2

Understand and explain the purpose and structure of RDBMS

- What is an RDBMS and where are they used?
- Investigate the following characteristics of a RDBMS
 - Relationships, Domains, Attributes, and Cardinality
 - Primary and Secondary Keys
 - Data Types
 - SQL
 - Referential Integrity

Information can be produced as a report, presentation, notes or revision cards. Each term or question should have a definition (where appropriate) and an explanation of how it works, where it is used, and some of its characteristics and/or attributes.