

YEAR 12 – BRIDGING UNITS

Computing: Application Development



ST HILDA'S
COLLEGE

The 6th Form
@ St Hilda's

bridging
units

Name:

Anything is

POSSIBLE

Welcome to IT

Setting yourself up for success

So, you have chosen to undertake the Cambridge Advanced National in Computing course at KS5. In preparation for the start of the course in September, I have designed a series of tasks for you to complete in order to 'bridge the gap' between what you already know and what we will be taking forward onto the course you have chosen to study. **Please take all 3 completed tasks to your first timetabled IT lesson in September!**

Preparation

Between now and the beginning of your studies here at St. Hilda's, it will be helpful to get prepping for the course you will undertake so the following tasks are designed to help you to familiarise yourself with knowledge you may have already studied at KS4.

Task 1: Types of software used in application design

What is a program?

What is an application?

Anything is

POSSIBLE

Research the characteristics of a program and an application. Then complete the following tables:

Characteristics of a program				
Purpose	Features	User interaction	Installation	Compatibility

Characteristics of an application				
Purpose	Features	User interaction	Installation	Compatibility

Programs and applications can be found on a variety of devices. Can you give examples of what can be found on the following. The first one is done for you:

Device	Examples of devices, programs and applications found on them
Personal computer (PCs)	Desktop computers, laptops and tablets PCs are devices that run a variety of programs and applications. They are used for tasks such as word processing, web browsing, multimedia, gaming and software development
Smartphones and tablets	
Servers	
Embedded systems	
Wearable devices	
Gaming consoles	
Smart home devices	

Task 2: Operating Systems (OS) for application software

For this task you must conduct your own research into each of the following operating systems. You should use several sources for this and really investigate each one thoroughly. Please provide detailed explanations for each of the following:

Network operating systems

- What is it?
- Advantages
- Disadvantages
- Examples

Open operating system

- What is it?
- Advantages
- Disadvantages
- examples

Proprietary operating system

- What is it?
- Advantages
- Disadvantages
- Examples

What are the key differences between open and proprietary operating systems?

Please remember to take this completed document to your first IT lesson in September.