

## **TERM 2 - COMPUTER SYSTEMS**

### **Experiences and Outcomes**

TCH 3-08c

Having gained a knowledge and understanding of the components of a computer, I can make an informed choice when deciding on the system required for a specific purpose.

TCH 3-08b

I can build a digital solution which includes some aspects of multimedia to communicate information to others.

TCH—303a

I can explore and use the features of a variety of familiar and unfamiliar software to determine the most appropriate to solve problems or issues.

Learning Intentions (for the unit)

By the end of the unit of work you should be able to:

Know what a computer system is

Know the difference between hardware and software

Know the main components of a computer system using a four boxed diagram

Know what components make a powerful computer

Identify the types and measurement of memory

Identify the types and capacity of storage and know when to use the various input and output devices

Select a suitable computer system for a given task

Follow instructions carefully

Work individually, in pairs and with the whole class

Complete set tasks and homework

Complete the challenge report

**Teacher Plan** (this is merely a guide)

S:/ICT/S2CfECourse/Term 2 Computer Systems

### **Week 1—What is a computer and how does it work?**

Pupils should be instructed to create a new folder in their S2 CfE folder called **Computer Systems**

SAVE the **pupil booklet** into their folder (S:/ICT/S2CfECourse/Term 2 Computer Systems)

The **pupil booklet** contains the checklist for pupils as well as tasks to be completed throughout the unit

Use **notes** slides 1-5

**Task 1** - slide 6

A. Hot potatoes Quiz (score noted on their **pupil booklet**)

B. Computer System Animation (**pupil booklet** ticked once task completed)

Pupils should use the main Computer Systems presentation whilst working through the unit

### **Week 2– Input Devices**

Ask pupils to name any input device they may use or know about

From **slide 1** select Computer Systems

From the Computer Systems diagram—pupils should select **Input device (1)**

**Task 2** - slide 8

Save Input Devices worksheet in Computer Systems folder

Double click on device name to get drop down list

Pupils should select the name of the device

Purpose

Research how it works (recommended sites—teach-ict.com or how stuff works)

Once complete - pupils should remember to tick their checklist in their **pupil booklet**

### **Week 3 - CPU (Processor and Memory)**

From the Computer Systems Diagram (slide 5) select **Processor (2)** and **Memory (3)**

**Note** slide 9 & 10

**Task 3** - slide 11

Answer questions in [pupil booklet](#)

Go over answers with class - pupils should add score to their checklist

Start Output Devices -

From the Computer Systems (slide 1) select **Output Devices**

**Note** slide 12

**Task 4** - slide 13

Answer questions in [pupil booklet](#)

#### **Week 4 - Output Devices**

From the Computer Systems (slide 1) select **Output Devices**

**Notes** slides 12 & 13

**Task 5** - slide 12 Output Devices Factsheet task

Once complete - pupils should remember to tick their checklist in their [pupil booklet](#)

#### **Weeks 5 & 6 – Backing Storage Capacity**

From the Computer Systems (slide 1) select **Backing Storage**

Pupils should work through the backing storage media and read about the advantages and disadvantages of each before attempting the tasks.

**Notes** - Slides 14, 16-20

**Task 6** - Slide 15 answer quiz sheet in [pupil booklet](#)

**Task 7** - Backing Storage Grid—pupils should SAVE and complete grid using data from the notes slides

**Task 8** - Slide 21 - complete table in [pupil booklet](#)

#### **Weeks 7 & 8 - Types of Computers**

From the Computer Systems (slide 1) select **Types of Computers**

Pupils will research information for the 4 types of computers using the Factsheet (slide 23) for guidance to create a presentation.

**Notes** - Slides 14, 16-20

**Task 9** - Slide 23

SAVE presentation in Computer Systems folder

## **Weeks 9 & 10 - Challenge Sheet**

From the Computer Systems (slide 1) select **Challenge**

Pupils should complete the task by comparing two of each device and recommending one of each based on the criteria asked for.

Pupils should use the [Computer Systems Challenge Answer Sheet](#) to complete the task.

Evidence should be saved in their Computer Systems folder.

It should be explained to pupils that their screen shots should be added to their answer sheet and that all criteria should be highlighted on the document.

An example sheet has been provided.