WJEC GCSE Digital Technology

Unit 1: The digital world (Block 4: Impact of digital systems on organisations and individual)

This bundle may contain most if not, all of the following resources:

- Each lesson provided is for first-time teaching and they include the following components:
 - Starter activity The starter is designed for knowledge retrieval, many people believe (including myself) that revision should start from the very first lesson. So, each lesson the starter activity will include questions from previous topics to improve memory recall.
 - Exam practise As much as we would like students to be great at exams, they need
 considerable practise and guidance to master the art. Each lesson includes a 'walk and talk'
 style exam question that students can work through and self-assess using the mark scheme
 provided.
 - Concept map A concept map provides students with an overview of the topic and establishing the relationship it has with other concepts taught throughout the course.
 - Keywords Each lesson will include a set of key words students will come across throughout the lesson. The really important key terms will include a definition and meaning which they can refer back to throughout the lesson.
 - New information New concept is introduced and, in most cases, a video is provided which students watch and then answer a set of questions based around it. This is designed to provide some in-class discussion before moving onto the main activity.
 - Activity Each lesson will include at least one activity that allows students to be more independent and dig a little deeper into the new concept. All activity sheets include answers.
 - Self-checker tool This is a useful AFL tool in which students can check their understanding.
 The lesson could include a multiple-choice guiz which was built in Microsoft Forms.

• AFL (Knowledge capture):

- This document is very versatile. It can be used as a plenary at the end to check understanding, could be used as a homework to consolidate learning, a starter for retrieval practice or saved for some revision.
- It includes a RAG rating for students to complete with some exam-style questions. The answers/mark scheme to these exam-style questions also been included.

Review:

 An accelerated writing activity to encourage students to go into more detail and demonstrate a deeper understanding of certain concepts. This could be converted into a bingo card and each box they complete they get a reward, works well with low ability students who need some extra motivation.

• Knowledge organisers

There are some question marks as to whether these really have an impact but I know a decent proportion of students find them useful so for me that's a win. Most lessons will include a knowledge organiser that can be used as future revision. Completed copy and a blank version will be provided in case you wanted students to complete them.

Workbooks

- These are condensed versions of topics taught and act as a useful revision guide for students to complete in preparation for an exam.
- o It's quite flexible and could easily be used for anyone who prefers to go down the 'flipped learning' approach.
- o It's also good to set students who may be absent from lesson.

End of block assessment

 This is a short exam-style paper on the first block. It's out of 40 marks and a mark scheme has been included.



Lesson breakdown

Lesson	Topic	Structure
1	Digital systems	 Starter activity on retrieval practice. Students practise an exam-style question based on last week's learning. The mark scheme has been provided with some guidance on better understanding the command words used. In-class activities on slide 8. The lesson consists of two tasks: Task 1 Activity 1 is about students understanding a range of applications that might be used by organised and in particular, office applications. They need to be able to identify their purpose, advantages and disadvantages to using each one. Activity 2 focuses on the hardware requirements and understanding different computers that might be used by organisations. Understanding the advantages and disadvantages to using each one. It would be good if they provided some justification into how each one might be suitable for the use in the workplace.
		 Task 2 This task focuses on the consumer and the hardware they would access at home. There is a big focus on smart devices such as mobile phones, games consoles, smart TV's and tablet devices. Students need to understand their core function aswell as the it's increasing capabilities. It' encouraged for each device they can identify the advantages and disadvantages to using each one. Self-checker tool
		 A quiz in Microsoft Forms have been provided. Teachers can create a duplicate copy so they can pass it on to students. Knowledge capture acts as a skills audit in which students can check their level of understanding and test it against exam-style questions.
		 Knowledge organisers One organiser that covers social engineering techniques as part of the specification. Revision workbook
2	practices	 Teacher copy with answers and blank student version provided. Starter activity on retrieval practice. Students practise an exam-style question based on last week's learning. The mark scheme has been provided with some guidance on better understanding of the command words used. In-class activities on Slide 9 and 10 with supporting video contributing to the in-class discussions.
		 The lesson consists of one task Activity 1 encourages students to understand teleworking, collaborative working; their similarities and differences. In addition to this, students excepted to identify pros and cons to each. Activity 2 is a case study that looks at the impact technology is having on jobs and in particular how the use of self-checkout machines has reduced the need for cashiers, thus having an impact on jobs.

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		 Activity 3 is another case study that looks into the use of robots in the manufacturing process. This is similar to activity 2 as in it focuses on this may impact people's jobs, but also create new opportunities (especially in the technology sector) The idea behind the two case studies is that students create their own misconception by assuming "robots are taking over" where in fact it's about how technology is being used to perform tasks that would normally be done by a human. The self-checkout case study is a good way to address that because it gets students to think about the artificial intelligence side of it. Self-checker tool
		 A quiz in Microsoft Forms have been provided. Teachers can create a duplicate copy so they can pass it on to students. Knowledge capture acts as a skills audit in which students can check
		 their level of understanding and test it against exam-style questions. Knowledge organisers One organiser that covers different types of malware.
		Knowledge capture Three greations become an today, a large interference or residual.
3	Digital divide	 Three questions based on today's learning (answers provided). Starter activity on retrieval practice.
	2.9	 Students practise an exam-style question based on last week's learning. The mark scheme has been provided with some guidance on better understanding of the command words used.
		 In-class activities on Slide 8 and a video that will contribute to the discussion.
		 The lesson consists of one task: The first two activities require students to understand how a digital divide is not just present on a local scale but on a global scale too. The final activity encourages students to develop a much thorough understanding of the digital divide and its impact on individuals and wider society.
		 Self-checker tool A quiz in Microsoft Forms have been provided. Teachers can create a duplicate copy so they can pass it on to students. Knowledge capture acts as a skills audit in which students can check their level of understanding and test it against exam-style questions. Knowledge organisers
		 One organiser provided. Knowledge capture
4	Online services	 Three questions based on today's learning (answers provided). Starter activity on retrieval practice. Students practice an exam style question based on last week's learning.
		Students practise an exam-style question based on last week's learning. The mark scheme has been provided with some guidance on better understanding the command words used.
		 In-class activities on Slides 8 to 9 with supporting videos. This lesson consists of one task: Task 1: Understand the terms B2B, EDI and the advantages/disadvantages of using them. Task 2: Understand the term B2C, what is meant by online shopping: how it works along with the advantages/disadvantages to the customer and businesses.

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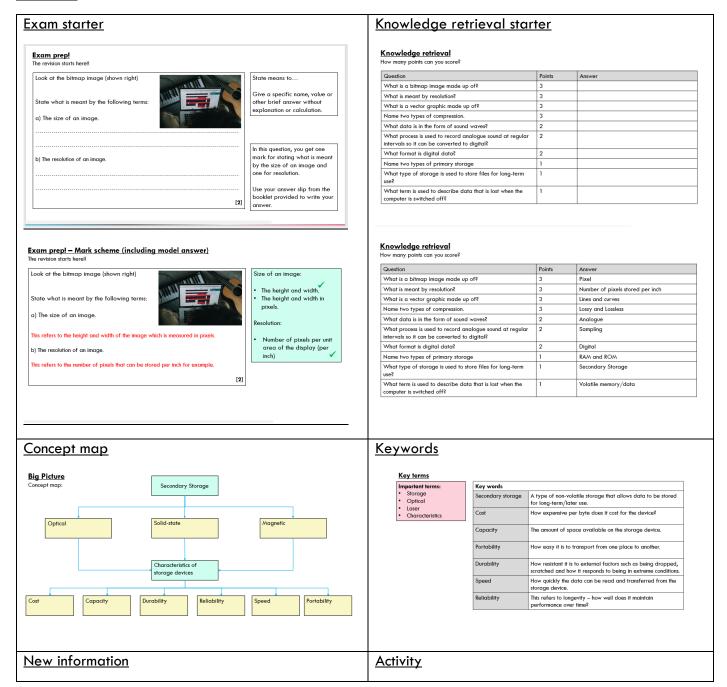
- Task 3: Understand the term C2C using the example of online auction websites to explain this. Students are required to identify advantages/disadvantages of C2C selling.
- Self-checker tool
 - A quiz in Microsoft Forms have been provided. Teachers can create a duplicate copy so they can pass it on to students.
- Knowledge capture acts as a skills audit in which students can check their level of understanding and test it against exam-style questions.
- Knowledge organisers
 - One organiser provided.
- Revision workbook
 - o Teacher copy with answers and blank student version provided.

Important notes about this bundle in relation to the specification.

You will notice the following sections are missing. I've provided the answer in red.

- Implementation of digital systems: Covered extensively in 1.2 as part of the Systems Development Life Cycle lesson
- Rise of services and monetising content: I felt this fitted in better with digital communications in 1.3 so this will be added to that bundle.

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