

Surname	Centre Number	Candidate Number
First name(s)		0



GCSE

3540U10-1



S25-3540U10-1

TUESDAY, 3 JUNE 2025 – MORNING

DIGITAL TECHNOLOGY – Unit 1

The Digital World

Paper version of on-screen assessment

1 hour 30 minutes

For Examiner's use only		
Question	Maximum Mark	Mark Awarded
1.	9	
2.	4	
3.	8	
4.	9	
5.	9	
6.	6	
7.	6	
8.	8	
9.	10	
10.	11	
Total	80	

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INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen. Do not use gel pen or correction fluid.

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer **all** questions.

Write your answers in the spaces provided in this booklet. If you run out of space, use the additional page(s) at the back of the booklet, taking care to number the question(s) correctly.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets at the end of each question or part-question.

You are reminded of the necessity for good English and orderly presentation in your answers.



JUN253540U10101

Answer **all** questions.

1. Data can be stored digitally.

(a) Tick (✓) the correct boxes to show the correct data storage unit.

[3]

	Terabyte	Byte	Gigabyte
1024 Mb	☐	☐	☐
1024 Gb	☐	☐	☐
8 bits	☐	☐	☐

(b) (i) Tick (✓) the correct boxes to show the correct image type.

[2]

Description	Vector	Bitmap
This image type is made of many tiny parts called pixels.	☐	☐
This image type uses geometric points, lines, curves, shapes or polygons based on mathematical expressions.	☐	☐

(ii) State what is meant by the term 'image resolution'.

[1]

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(c) (i) State what is meant by the term 'image compression'.

[1]

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(ii) Describe the difference between lossy compression and lossless compression. [2]

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2. There are many ways to interact and connect with digital devices.

(a) State **one** method of interacting with a smart phone. [1]

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(b) (i) Name the technology used to give the location of a smart phone. [1]

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(ii) Identify **one** advantage and **one** disadvantage of location sharing on smart phone apps. [2]

Advantage:

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Disadvantage:

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3. Broadband is a method for homes to connect to the Internet.

- (a) Identify **two** advantages and **two** disadvantages of having broadband connectivity. [4]

Advantage 1:

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Advantage 2:

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Disadvantage 1:

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Disadvantage 2:

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- (b) Describe the difference between ADSL and SDSL. [2]

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- (c) Describe the difference between fibre to the cabinet (FTTC) and fibre to the premises (FTTP) connections. [2]

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4. Parkwood Vale College has employed Kaleem as a systems analyst. Kaleem's role is to implement a new biometric student registration system.

- (a) Explain the different changeover methods that Kaleem could use to implement the new biometric student registration system. [6]

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- (b) After staff training, explain **two** guidance documents that would be provided to help with system maintenance. [3]

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5. There are a range of threats to data stored on digital systems.

- (a) (i) State what is meant by deliberate damage. Give **two** examples to illustrate your answer. [3]

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- (ii) Describe **two** different security measures that could protect networks, systems, transmitted and stored data. [4]

Security measure 1:

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Security measure 2:

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- (b) Describe the term 'cyber resilience'. [2]

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6. Katie has decided to sell some items online.
Explain the advantages and disadvantages to Katie of using a consumer to consumer (C2C) marketplace. [6]

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7. Ffion works for a Welsh fashion magazine and has been asked to create an article on famous Welsh people.

- (a) Explain **one** issue Ffion may encounter with the reliability and accuracy of information found on the Internet. [3]

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- (b) Explain **one** method Ffion could use to verify the information found online. Use examples. [3]

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8. Molly has decided to start a new career as a fashion influencer and plans to use social media for self-promotion.

Explain **two** different types of popular social media platforms and their unique features that Molly could use. For each platform, give **one** benefit and **one** drawback. [8]

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9. Describe the changes in working practices that have occurred as a result of digital technology, identifying:

- the changes
- the benefits
- the drawbacks

[10]

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- Explain the various uses of AI in restaurants, as well as the benefits and drawbacks to both customers and the restaurant. [QWC 11]



[illegible]

[illegible]

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