

Cycle 1 Homework



Subject: Computer Science

Year 11

This cycle you are learning: OCR J276 – Computer Science.

| Week of cycle | |
|---------------|---|
| 1 | Networks – Introduction to Networks |
| 2 | Networks – Wired and wireless networks |
| 3 | Networks – Topologies, Wi-fi and ethernet |
| 4 | Networks - Risks to networks |
| 5 | Systems Architecture – Processing |
| 6 | Systems Architecture – Systems architecture |
| 7 | Systems Architecture – Fetch – Decode – Execute Cycle |
| 8 | Assessment |
| 9 | Super-teach week, Improvements and evaluation |

Expectations

Rationale for home work this term:

- To consolidate in class learning
- To secure your knowledge of key topics
- To practice skills related to your assessment

- Complete 1 homework task per week.
- Your homework will be peer marked and marked online.
- It must be completed by the due date or you will receive an automatic 60-minute detention.

Name _____

Teacher _____

Week 1 – Introduction to networks

Due: Week 2, lesson 3, date: _____


Success criteria:

- TBAT answer all knowledge-based question.
- TBAT answer revision knowledge-based questions.

Assessment method:

- Online quiz.

Task:

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|  <p>DODDLE 2.1 Introduction to Networks mini quiz <small>Learning objectives</small></p> <p>KS4 ICT</p> <p>This quiz will cover...</p> <ul style="list-style-type: none">■ The uses of networks.■ Network components.■ Different types of network cable.■ Wireless networks. <p>25 marks available</p> <p> this quiz is NOT timed</p> <p> 1 attempt at each question</p> <p>Click "Next" to begin.</p> <p><small>Photo: © Toria, Shutterstock.com</small></p> <p>next ></p> | <p>Score: </p> |
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Week 2 – Wired and wireless networks

Due: Week 3, lesson 3, date: _____




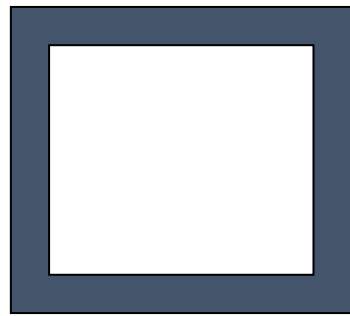
Success criteria:

- TBAT answer all knowledge-based question.
- TBAT answer revision knowledge-based questions.

Assessment method:

- Online quiz.

Task:

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|  <p>DODDLE Wired and wireless networks OCR quiz <small>Learning objectives</small></p> <p>Wired and wireless networks</p> <p>This quiz will cover...</p> <ul style="list-style-type: none">■ what a network is■ advantages of networks■ levels of network (LAN, WAN, PAN)■ client-server and peer-to-peer networks■ network hardware and transmission media■ factors that affect the performance of networks. <p>25 marks available</p> <p> this quiz is NOT timed</p> <p> 1 attempt at each question</p> <p>Press next to begin.</p> <p><small>Press here for image credits</small></p> <p>Print next ></p> | <p>Score: </p> |
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Week 3 – Topologies, Wi-Fi and Ethernet

Due: Week 4, lesson 3, date: _____


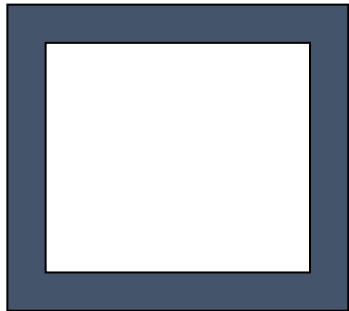
Success criteria:

- TBAT answer all knowledge-based question.
- TBAT answer revision knowledge-based questions.

Assessment method:

- Online quiz.

Task:

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|  | <p>Score:</p>  |
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Week 4 – Risks to networks

Due: Week 5, lesson 3, date: _____

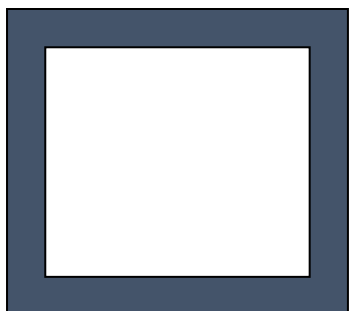
Success criteria:

- TBAT answer all knowledge-based question.
- TBAT answer revision knowledge-based questions.

Assessment method:

- Online quiz.

Task:

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|  | <p>Score:</p>  |
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Week 5 – Processing

Due: Week 6, lesson 3, date: _____

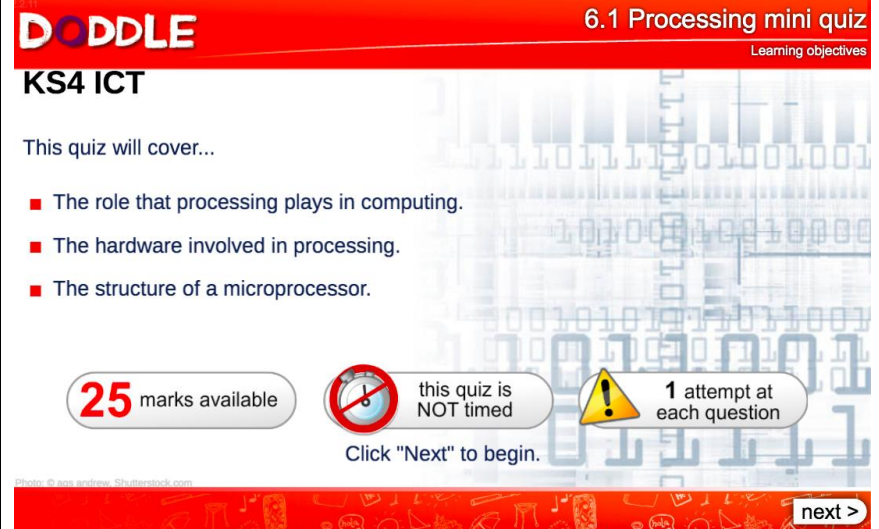
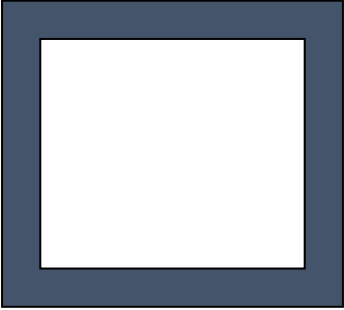
Success criteria:

- TBAT answer all knowledge-based question.
- TBAT answer revision knowledge-based questions.

Assessment method:

- Online quiz.

Task:

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|  <p>DODDLE 6.1 Processing mini quiz Learning objectives</p> <p>KS4 ICT</p> <p>This quiz will cover...</p> <ul style="list-style-type: none">■ The role that processing plays in computing.■ The hardware involved in processing.■ The structure of a microprocessor. <p>25 marks available</p> <p>this quiz is NOT timed</p> <p>1 attempt at each question</p> <p>Click "Next" to begin.</p> <p>next ></p> | <p>Score: </p> |
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Week 6 – Systems Architecture

Due: Week 7, lesson 3, date: _____

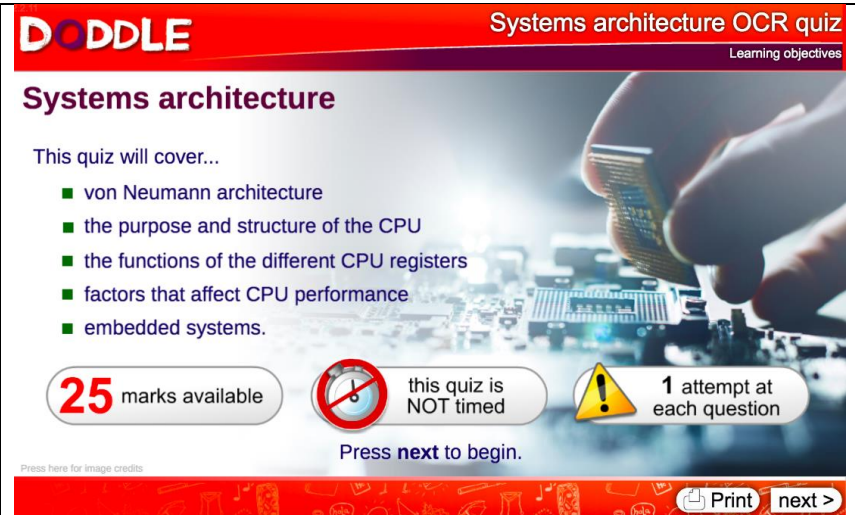
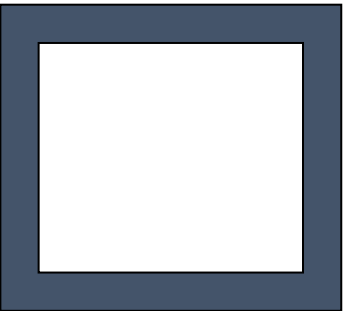
Success criteria:

- TBAT answer all knowledge-based question.
- TBAT answer revision knowledge-based questions.

Assessment method:

- Online quiz.

Task:

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|  <p>DODDLE Systems architecture OCR quiz Learning objectives</p> <p>Systems architecture</p> <p>This quiz will cover...</p> <ul style="list-style-type: none">■ von Neumann architecture■ the purpose and structure of the CPU■ the functions of the different CPU registers■ factors that affect CPU performance■ embedded systems. <p>25 marks available</p> <p>this quiz is NOT timed</p> <p>1 attempt at each question</p> <p>Press next to begin.</p> <p>Print next ></p> | <p>Score: </p> |
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Week 7 – Fetch-Decode-Execute Cycle

Due: Week 7, lesson 3, date: _____

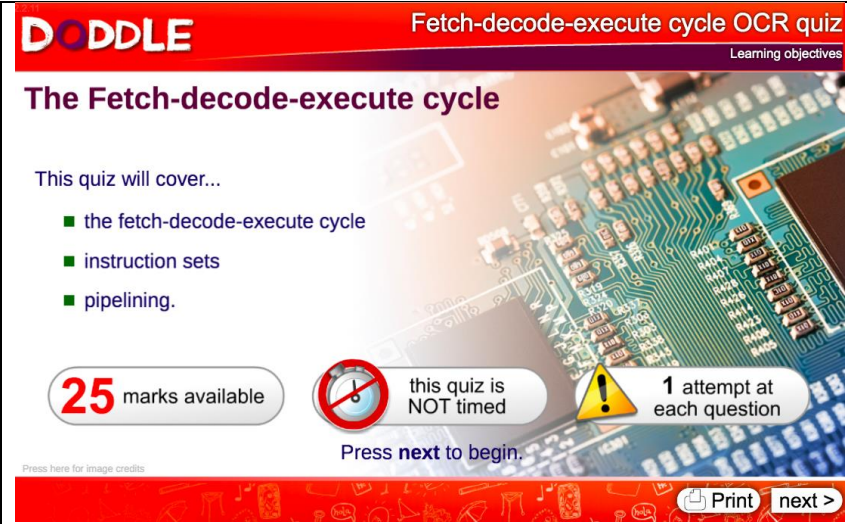
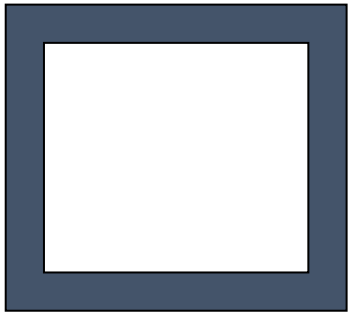
Success criteria:

- TBAT answer all knowledge-based question.
- TBAT answer revision knowledge-based questions.

Assessment method:

- Online quiz.

Task:

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|  <p>The screenshot shows a quiz interface with the following elements:</p> <ul style="list-style-type: none">Header: DODDLE logo on the left, 'Fetch-decode-execute cycle OCR quiz' and 'Learning objectives' on the right.Title: 'The Fetch-decode-execute cycle'.Content: 'This quiz will cover...' followed by a bulleted list: 'the fetch-decode-execute cycle', 'instruction sets', and 'pipelining'.Metadata: '25 marks available' (in a red circle), 'this quiz is NOT timed' (with a clock icon), and '1 attempt at each question' (with a warning icon).Instructions: 'Press next to begin.'Footer: 'Print' and 'next >' buttons. | <p>Score: </p> |
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