

Parent Revision Surgery Computer Science

Your guide to study support

Helping your child to be the best they can be



AQA - Computer Science

A vertical diagram on the left side of the slide, shaped like a downward-pointing arrow. It is divided into four colored sections: a blue top section with a circular inset containing the text 'Big Picture', a yellow section with the text 'New Material', a red section with the text 'Deepen Understanding', and a dark red bottom section with the text 'Review and Reflect'.

Big Picture

New Material

Deepen
Understanding

Review and
Reflect

**Paper 1 - 1h 30m - Monday - 11 May 2020
am**

Algorithms

Data Representation
Computer Systems

**Paper 2 - 1h 30m - Wednesday - 14 May
2020 pm**

Data Representation
Computer Systems

Networks

Computer Security

Ethics

Key words

Big Picture

New Material

Deepen
Understanding

Review and
Reflect

State

Give a point

- E.G. ASCII uses 7 bits

Describe

Give instructions on how this works/Has happened

- Data is read from a CD by reflecting a laser off the surface. Depending on the angle the light is reflected will determine if this is a 1 or a 0

Explain

Give a point, this is because

- SSD storage is more robust, because there are no moving parts.

Discuss (Generally 2 or 3 of the examples below per topic)

Give a point, this is because, positive and negative

- SSD storage is more robust, because there are no moving parts, this would benefit a user who wished to have storage which is portable as there is less chance of damage to their device.

Evaluate

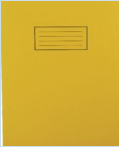
_Give a point, this is because, positive and negative

- SSD storage is more robust, because there are no moving parts, this would benefit a user who wished to have storage which is portable as there is less chance of damage to their device.

Adding in conclusion based on findings

Develop

- Generally linked to creating an algorithm for a set task.




Website - Shared for free with a load of resources available

Computer Science 2016 Home Useful Links Algorithms 2A Programming 2B Programming Data Representation Systems More

Click the button below for Some useful Website's

Useful Links

ALL YOU NEED FOR COMPUTER SCIENCE



UNIT 1 - ALGORITHMS

Guides and exam practice
(Can be bought from the Finance Office)

REVISION FLASH CARDS

Boolean Logic

The logic gates AND, OR and NOT are Boolean functions. A computer can take any number of ANDs, ORs and NOTs depending on whether it is 0 and TRUE or FALSE.

A truth table shows the output from all possible combinations of inputs from a Boolean function.

AND Truth Table

A	B	A AND B
0	0	0
0	1	0
1	0	0
1	1	1

OR Truth Table

A	B	A OR B
0	0	0
0	1	1
1	0	1
1	1	1

Other security issues


Spam

- Spam is unsolicited, unwanted or unwanted email.
- Spam is often used to spread malicious software (malware).
- Spam is often used to spread phishing attacks.
- Spam is often used to spread malware.
- Spam is often used to spread malware.

Phishing

- Phishing is a type of cyber attack where the attacker tries to steal sensitive information from the victim.
- Phishing is often done via email, but can also be done via social media or instant messaging.
- Phishing is often done by pretending to be a trusted entity, such as a bank or a government agency.
- Phishing is often done by using a website that looks like a legitimate one, but is actually a fake one.

CGP




GCSE AQA Computer Science

For the Grade 9-1 Course

The Revision Guide

CGP



GCSE AQA Computer Science

For the Grade 9-1 Course

Exam Practice Workbook

Includes Answers

Revision Website

Computer Science 2016

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SYSTEMS

Change image Header type

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Boolean logic
Unit 4
Computer systems

PG ONLINE

1

Worksheet 1 Boolean logic
Unit 4 Computer systems

Task 1

Study each of the Boolean logic statements below and for each one say if they return TRUE, false, true or FALSE (Binary 0).

- $X = 10$
- $NOT(OR(A, B))$
- $(X2 + 16) AND (X3 + 15)$
- $NOT(OR(X2, X3 + 7))$
- $AB + 400 OR (A + 34) OR (B + 5)$
- $T = 5$
- $(X2 + 100) AND (X3 + 44)$
- $NOT(OR(OR(X2, X3), 2))$

Challenge:

$(X1 NOT (X2 + 15) OR (X3 + 10)) AND (X2 + 75) AND (X3 + 345)$

Computer systems Worksh...

Homework 1 Boolean logic
Unit 4 Computer systems

Task 1

Study the logic in each of the following logic diagrams and express the outputs in the form of Boolean algebra. For example:

$A = 0$ Boolean algebra: $P = A AND B$

$A = 1$ Boolean algebra: $P =$

$A = 0$ Boolean algebra: $P =$

$A = 1$ Boolean algebra: $P =$

$A = 1$ Boolean algebra: $P =$

$A = 0$ Boolean algebra: $P =$

Complete the truth table for the first logic diagram in (c) above:

A	B	$A + A AND B$	$P = NOT (A AND B)$
0	0		
0	1		
1	0		
1	1		

Computer systems Homew...


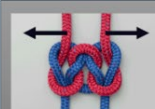
Full text version,
to help with any
further questions
you may have
about the topic

Revision Website

UNIT 4 - COMPUTER SYSTEMS

Thursday, 26 March 2019 (26/03/2019)

Starter



Challenge - Can you name 2 types of system software?

Big Picture/Killer Question:

FAST FIVE

Topic: Fundamentals of Networks

Answer in the back of your book

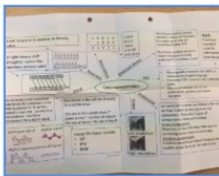
1. What is the main difference between a LAN and a WAN in terms of ownership?
2. What kind of network topology does Whicham School use?
3. What does https stand for?
4. What is the main piece of hardware that is different between a Star and a Bus network topology?
5. What does WPA with reference to a Wi-Fi network?

Loading...

We have combined two lessons together here, completed exam questions within the lesson. These were designed to be less intense with information and just serving the purpose of jogging the pupils' memory.

Revision Techniques

Revision practice



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Subjects

Qualifications

Professional development

Exams administration

Subjects / Computer Science and IT / GCSE / Computer Science (8520) / Assessment resources

Computer Science (8520)

Introduction

Specification at a glance

Subject content

Scheme of assessment

Programming project administration

General administration

Planning resources

Teaching resources

Assessment resources

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Assessment resources

June 2018 papers and mark scheme

- Paper 1: Examiner report June 2018 (65.6 KB)
- Paper 1: Mark scheme June 2018 (593.2 KB)
- Paper 1: Modified question paper June 2018 (707.8 KB)
- Paper 1: Question paper June 2018 (458.3 KB)
- Paper 2: Examiner report June 2018 (63.7 KB)
- Paper 2: Mark scheme June 2018 (533.9 KB)
- Paper 2: Modified question paper June 2018 (571.6 KB)
- Paper 2: Question paper June 2018 (342.7 KB)

Specimen papers and mark scheme

- Paper 1: Additional specimen mark scheme (107.1 KB)
- Paper 1: Additional specimen questions (101.3 KB)
- Paper 1: Specimen mark scheme (188.8 KB)
- Paper 1: Specimen question paper (300.8 KB)
- Paper 1: Supplementary questions (2.9 MB)
- Paper 2: Additional specimen mark scheme (86.6 KB)
- Paper 2: Additional specimen questions (63.7 KB)
- Paper 2: Specimen mark scheme (546.3 KB)
- Paper 2: Specimen question paper (217.4 KB)
- Paper 2: Supplementary questions (1.6 MB)

What can you do?

Techniques can be:

- Going through a pseudocode/flowcharts task and asking questions so the pupil can explain what is happening to you.
- Help them mark the test, give them a mark using the marking criteria and then you can have that discussion with one another with why they should of shouldn't get the mark **(Argument free if possible!)**
- If they are struggling on a particular aspect of the theory, help them research it, a problem halved (etc etc).
- If you come across a state question, challenge the pupils to explain or evaluate that piece of theory as well.

Most important of all is to ensure they are revising. Sitting there reading information from a textbook is not the only tasks which should be completed for revision.

