



GCSE MARKING SCHEME

SUMMER 2018

**INFORMATION & COMMUNICATION TECHNOLOGY
UNIT 1: UNDERSTANDING ICT
4331/01**

INTRODUCTION

This marking scheme was used by WJEC for the 2018 examination. It was finalised after detailed discussion at examiners' conferences by all the examiners involved in the assessment. The conference was held shortly after the paper was taken so that reference could be made to the full range of candidates' responses, with photocopied scripts forming the basis of discussion. The aim of the conference was to ensure that the marking scheme was interpreted and applied in the same way by all examiners.

It is hoped that this information will be of assistance to centres but it is recognised at the same time that, without the benefit of participation in the examiners' conference, teachers may have different views on certain matters of detail or interpretation.

WJEC regrets that it cannot enter into any discussion or correspondence about this marking scheme.

GCSE INFORMATION & COMMUNICATION TECHNOLOGY

SUMMER 2018 MARK SCHEME

Question	Answer	Max mark								
1 (a)	<p>Award one mark for each correct answer</p> <table border="1"> <tr> <td>B</td> <td>Text box/ AutoShape/ Rectangle shape <i>Not box , not shape</i></td> </tr> <tr> <td>C</td> <td>Table</td> </tr> <tr> <td>D</td> <td>Word Art</td> </tr> <tr> <td>E</td> <td>Italic font/ Italics</td> </tr> </table>	B	Text box/ AutoShape/ Rectangle shape <i>Not box , not shape</i>	C	Table	D	Word Art	E	Italic font/ Italics	4
B	Text box/ AutoShape/ Rectangle shape <i>Not box , not shape</i>									
C	Table									
D	Word Art									
E	Italic font/ Italics									
1 (b)	<p>Award one mark for each correct answer</p> <p>Bold Font / Bold text NOT bold or font Change font size / text size Different font styles NOT different fonts Centre text Border art/enhanced border/ (NOT just 'border') Bullet points Colour (must be qualified – coloured font/background etc...) Insert scanned photograph, photograph from the Internet Underline Watermark Rotate image</p> <p>Any reasonable DTP feature.</p> <p>NOT Clip Art, Text box, Auto Shape, Table, Word Art, Italic font</p>	2								
1 (c)	<p>Award One mark for the document and one mark for a different use.</p> <p>Signs – e.g. way to the car wash area Labels – To create price labels Newsletter – To send home to parents with information of the sponsored car wash Banners – To hang around the car wash Certificates – For the most amount of money raised Leaflet – Prices Flyers – to advertise the car wash Poster – to highlight the event to students and teachers Price list – To give details of car wash services available</p> <p>Any reasonable answer NOT sponsor form</p>	2								
2	<p>Award one mark for each correct answer</p> <p>3 - Knowledge 5 - Information 7 – Data 10 - Data</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td><i>If more than one box is ticked in any row - no mark for that row</i></td> </tr> </table>	<i>If more than one box is ticked in any row - no mark for that row</i>	4							
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Question	Answer	Max mark
3 (a)	<p>Award one mark for each correct answer Must be definition not a use</p> <p>1 mark for electronic message/electronic letter/digital message</p> <p>1 mark for between /computers/mobile phone /across network/ via Internet/online</p> <p>NOT 'messages sent by a computer' NOT 'letter' by itself NOT Electronic mail</p>	2
3 (b)	<p>Award one mark File Attachments Sending photos/letters/invites to relatives (Must have a concrete use not just files)</p>	1
3 (c)	<p>Award one mark Auditing Faster searches Keep emails organised Faster back-ups</p>	1
3 (d)	<p>Award one mark for each correct answer up to a maximum of 3 Hacking Viruses / Malware / Trojan Horse Spam/ junk mail Cyber bullying / Abusive emails Identity theft Phishing Trolling Grooming / Paedophiles / Stalking Inappropriate material</p> <p>Must include a description 1 mark for a list.</p>	3
4 (a) (i)	<p>Award one mark Biometric</p>	1
4 (a) (ii)	<p>Award one mark OMR</p>	1
4 (a) (iii)	<p>Award one mark RFID</p>	1
4 (a) (iv)	<p>Award one mark Smart Cards</p>	1
4 (b)	<p>Award one mark for each correct answer up to a maximum of two Reduces truancy Attendance figures worked out automatically / more accurate Easier to update / Edit / Amend Always know where pupils are Can study trends and patterns of attendance/ know if pupils are frequently late and absent Automatic SMS messages to parents Central repository for data / access Environmental issues Instant real time registration</p>	2

Question	Answer	Max mark
5	<p>Award one mark for each correct answer up to a maximum of three</p> <p>Create shortcuts / pinned to taskbar Create folders / move folders / organise folders Adjust volume/ sound settings Screen resolutions Adjust window size / splitscreen</p>	3
6 (a)	<p>Award one mark</p> <p>35</p>	1
6 (b)	<p>Award one mark</p> <p>B</p>	1
6 (c)	<p>Award one mark</p> <p>=D12-D20</p> <p>Condone =sum(D5:D11)-D20 or other variants that work</p>	1
6 (d)	<p>Award one mark</p> <p>=IF(D7>=\$G\$3,"Target Hit","Under Target") OR =IF(D7<\$G\$3,"Under Target","Target Hit")</p>	1
6 (e)	<p>Award one mark for each correct answer up to a maximum of two</p> <p>Any two of:</p> <p>Accurate/correct calculations Automatic re-calculation Save formula and data Condone 'what ifs'</p> <p>Must be linked to calculating total profit</p> <p>NOT just Automatic calculations</p>	2
7	<p>Award one mark for each correct answer</p> <p>1 3 6 7</p>	4

Question	Answer	Max mark
8 (a)	Award one mark 8	1
8 (b)	Award one mark 4	1
8 (c)	Award one mark for each correct answer up to a maximum of two Car Registration Number To uniquely identify each car / to make each record unique / unique identifier	2
8 (d)	Award one mark Car Wash Date	1
8 (e)	Award one mark Report Graph / Chart Table Mail merge Calculations	1
8 (f)	Award one mark for each correct answer up to a maximum of two Consistency of data. Saves typing in the whole word/ quicker to type / Faster to enter data. Saves memory/ storage space. Not 'space' by itself. Less chance of error/fewer transcription errors. Easier to check codes using validation checks. Faster access to data / Faster to transfer data.	2

Question	Answer	Max mark																		
9 (a)	Award one mark 2	1																		
9 (b)	<p>Award one mark for each correct answer</p> <p>Any two of: Search Box / Search Bar / Search Tab to enter key word searches Hotspots Hyperlinks Drop down menus / Drop down lists Navigation bar Using the menus to navigate to the product / filters</p> <p>NOT categories, not Search on its own, not search engine</p>	2																		
9 (c)	<p>Award one mark for each correct answer up to a maximum of four.</p> <table border="1" data-bbox="300 719 1137 1102"> <thead> <tr> <th data-bbox="300 719 624 757">Field</th> <th data-bbox="624 719 1137 757">Verification Method Accepted</th> </tr> </thead> <tbody> <tr> <td data-bbox="300 757 624 853">Email address</td> <td data-bbox="624 757 1137 853">Double entry keying / Type it in twice Read before submit/proofread</td> </tr> <tr> <td data-bbox="300 853 624 913">Password</td> <td data-bbox="624 853 1137 913">Double entry keying / Type it in twice</td> </tr> <tr> <td data-bbox="300 913 624 958"></td> <td data-bbox="624 913 1137 958"></td> </tr> <tr> <td data-bbox="300 958 624 992">Date of delivery</td> <td data-bbox="624 958 1137 992">Read before submit/proofread</td> </tr> <tr> <td data-bbox="300 992 624 1025">Quantity</td> <td data-bbox="624 992 1137 1025">Read before submit/proofread</td> </tr> <tr> <td data-bbox="300 1025 624 1059">Telephone number</td> <td data-bbox="624 1025 1137 1059">Read before submit/proofread</td> </tr> <tr> <td data-bbox="300 1059 624 1093">Card/ payment details</td> <td data-bbox="624 1059 1137 1093">Read before submit/proofread</td> </tr> <tr> <td data-bbox="300 1093 624 1126">Security code</td> <td data-bbox="624 1093 1137 1126">Read before submit/proofread</td> </tr> </tbody> </table> <p>Any reasonable field name.</p> <p>Double entry keying / Type it in twice – <i>only award if they have given email or password for the field</i></p> <p>For full marks must have two different fields and two different verification methods</p>	Field	Verification Method Accepted	Email address	Double entry keying / Type it in twice Read before submit/proofread	Password	Double entry keying / Type it in twice			Date of delivery	Read before submit/proofread	Quantity	Read before submit/proofread	Telephone number	Read before submit/proofread	Card/ payment details	Read before submit/proofread	Security code	Read before submit/proofread	2X2
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9 (d)	<p>Award one mark for each correct answer up to a maximum of three Any three of the following:</p> <ul style="list-style-type: none"> • Cost savings are passed to customers with cheaper goods /online deals • Allows disabled people to do their own shopping / Less stressful for parents / elderly • Saves travel time • Saves travel costs • Greater choice of goods (from a global marketplace) • Price comparisons • Read reviews • Can listen to samples before you buy / virtual reality displays • Get goods delivered / don't have to carry back from shops / click and collect • Instant downloads of videos/books/music/games/apps • Online tracking of orders • Reminder emails when goods in stock • Can get suggested/alternative items • Can return items within 14 days (mail order legislation) • Checking stock availability <p>NOT the ability to order goods 24/7 or multiple devices.</p>	3

Question	Answer	Max mark
10 (a)	<p>Award one mark for each correct answer One mark for each different sensor X3 One mark for each different output device X3 One mark for each different description of use X3</p> <p><u>Indicative content</u></p> <p>Burglar Alarm Sensor = Pressure / Passive infrared / Light beam / Motion / Sound Output device = Speaker / Light / Screen Description of use = At night a pressure sensor could be placed under a mat, on windows to raise awareness of a burglar and sound the alarm.</p> <p>Smart Meter Sensor:</p> <ul style="list-style-type: none"> • Magnetic Resistance • Current / Voltage measurement (Ammeter / Voltmeter) • Thermistor (heat) • flow sensors (gas measurement) <p>Output device:</p> <ul style="list-style-type: none"> • App on mobile device screen or computer screen • Remote device screen / hub screen • Utility company server • Meter readout screen • Speaker (for alarm) • LED <p>Description of use:</p> <ul style="list-style-type: none"> • Automatic real-time usage stats • Automatic meter readings • Room temperature measurement • Usage alarms • Cost indications 	3X3

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	<p data-bbox="300 253 488 282">Electronic Toy</p> <table border="1" data-bbox="300 311 1310 1675"> <thead> <tr> <th data-bbox="300 315 635 360">Sensor</th> <th data-bbox="635 315 975 360">Description</th> <th data-bbox="975 315 1310 360">Output</th> </tr> </thead> <tbody> <tr> <td data-bbox="300 367 635 528">Microphone (in the context of detecting sound)</td> <td data-bbox="635 367 975 528">Voice commands to toy dog to jump Voice commands to games console to switch on</td> <td data-bbox="975 367 1310 528">Motor (makes dog jump) Console switches on (power)</td> </tr> <tr> <td data-bbox="300 535 635 640">Infrared sensor</td> <td data-bbox="635 535 975 640">Toy Dinosaur moves when detects object in front</td> <td data-bbox="975 535 1310 640">Motor (makes it move)</td> </tr> <tr> <td data-bbox="300 647 635 792" rowspan="2">Pressure switch / push switch / push button</td> <td data-bbox="635 647 975 719">Toy car reverses and turns when hits an object</td> <td data-bbox="975 647 1310 719">Motor</td> </tr> <tr> <td data-bbox="635 725 975 792">Doll stops crying when fed by bottle</td> <td data-bbox="975 725 1310 792">Speaker turned off</td> </tr> <tr> <td data-bbox="300 799 635 904">Motion sensor</td> <td data-bbox="635 799 975 904">When ball is rolled it changes colour / makes a noise</td> <td data-bbox="975 799 1310 904">Speaker/lights</td> </tr> <tr> <td data-bbox="300 911 635 983">Light sensor</td> <td data-bbox="635 911 975 983">When gets dark child security light glows</td> <td data-bbox="975 911 1310 983">Light bulb</td> </tr> <tr> <td data-bbox="300 990 635 1061">Touch sensor</td> <td data-bbox="635 990 975 1061">Dolls/bears talk when tummy pressed</td> <td data-bbox="975 990 1310 1061">Speaker</td> </tr> <tr> <td data-bbox="300 1068 635 1140">Temperature sensor</td> <td data-bbox="635 1068 975 1140">Childs bath toy warns if too hot</td> <td data-bbox="975 1068 1310 1140">Speaker</td> </tr> <tr> <td data-bbox="300 1146 635 1308">Accelerometer</td> <td data-bbox="635 1146 975 1308">Remote control cars Detects speed of motion on device e.g. swing on controller to hit on screen ball</td> <td data-bbox="975 1146 1310 1308">Motors Speaker, Monitor (on screen movement)</td> </tr> <tr> <td data-bbox="300 1314 635 1386">Spatial sensor</td> <td data-bbox="635 1314 975 1386">Car when it hits objects changes direction</td> <td data-bbox="975 1314 1310 1386">Motor (turns wheel)</td> </tr> <tr> <td data-bbox="300 1393 635 1464">Biometric sensor e.g. fingerprint</td> <td data-bbox="635 1393 975 1464">Digital diary for a child with a security lock</td> <td data-bbox="975 1393 1310 1464">Motor / switch to unlock</td> </tr> <tr> <td data-bbox="300 1471 635 1576">GPS</td> <td data-bbox="635 1471 975 1576">Used to detect where a drone is and map where it is</td> <td data-bbox="975 1471 1310 1576">Motors (changes position)</td> </tr> <tr> <td data-bbox="300 1583 635 1675">Gyroscope</td> <td data-bbox="635 1583 975 1675">Detects tilt on device e.g. swing on controller to hit on screen ball</td> <td data-bbox="975 1583 1310 1675">Speaker, Monitor (on screen movement)</td> </tr> </tbody> </table>	Sensor	Description	Output	Microphone (in the context of detecting sound)	Voice commands to toy dog to jump Voice commands to games console to switch on	Motor (makes dog jump) Console switches on (power)	Infrared sensor	Toy Dinosaur moves when detects object in front	Motor (makes it move)	Pressure switch / push switch / push button	Toy car reverses and turns when hits an object	Motor	Doll stops crying when fed by bottle	Speaker turned off	Motion sensor	When ball is rolled it changes colour / makes a noise	Speaker/lights	Light sensor	When gets dark child security light glows	Light bulb	Touch sensor	Dolls/bears talk when tummy pressed	Speaker	Temperature sensor	Childs bath toy warns if too hot	Speaker	Accelerometer	Remote control cars Detects speed of motion on device e.g. swing on controller to hit on screen ball	Motors Speaker, Monitor (on screen movement)	Spatial sensor	Car when it hits objects changes direction	Motor (turns wheel)	Biometric sensor e.g. fingerprint	Digital diary for a child with a security lock	Motor / switch to unlock	GPS	Used to detect where a drone is and map where it is	Motors (changes position)	Gyroscope	Detects tilt on device e.g. swing on controller to hit on screen ball	Speaker, Monitor (on screen movement)	
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Question	Answer		Max mark	
11	Band	Max 15 Marks		
	3	11-15 Marks		
		<p>The candidate has:</p> <ul style="list-style-type: none"> • Shown clear understanding of the requirements of the question and a clear knowledge of the indicative content. Clear knowledge is defined as a response that provides eleven to fifteen relevant detailed points, which relate to an extensive amount of the indicative content. • Addressed the question appropriately with minimal repetition and no irrelevant material. • Used appropriate terminology and accurate spelling, punctuation and grammar. 		
	2	6-10 Marks		
		<p>The candidate has:</p> <ul style="list-style-type: none"> • Shown adequate understanding of the requirements of the question and a satisfactory knowledge of the indicative content. Satisfactory knowledge is defined as a response that provides six to ten points as signalled in the indicative content. • Given a response where there are a few errors in spelling, punctuation and grammar. 		
1	1-5 Marks			
	<p>The candidate has:</p> <ul style="list-style-type: none"> • Attempted to address the question but has demonstrated superficial knowledge of the content specified in the indicative content. Superficial knowledge is defined as a response that provides one to five points on the indicative content • Given a response that lacks clarity and there are significant errors in spelling, punctuation and grammar. 			
0	<p style="text-align: center;">0 Marks</p> <ul style="list-style-type: none"> • Response not credit worthy or not attempted, 			
<p>Award one mark for each correct answer</p> <p>Guidance One mark for each development in technology (Max 5) One mark for describing an advantage of social networking (Max 4) One mark for describing three disadvantages and one mark for how each can be overcome. (Max 6)</p>				

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11 (a)	<p data-bbox="300 253 533 282">Indicative content</p> <table border="1" data-bbox="300 282 1315 649"> <tr> <td data-bbox="300 282 491 649"> <p data-bbox="316 286 481 454"><u>Developments in technology that have facilitated the use of social networking</u></p> <p data-bbox="316 481 481 645">1 mark for each development X5 maximum of 2 per bullet point</p> </td> <td data-bbox="491 282 1315 649"> <ul data-bbox="555 293 1299 573" style="list-style-type: none"> • Hardware such as more powerful smart phones enabling gaming via social media • Developments in camera technology • Software apps • Communication technology / PAN • 4G technology allowing quality video calling • Wi-fi / MAN • Embedded GIS technology allowing you to show your location </td> </tr> </table>	<p data-bbox="316 286 481 454"><u>Developments in technology that have facilitated the use of social networking</u></p> <p data-bbox="316 481 481 645">1 mark for each development X5 maximum of 2 per bullet point</p>	<ul data-bbox="555 293 1299 573" style="list-style-type: none"> • Hardware such as more powerful smart phones enabling gaming via social media • Developments in camera technology • Software apps • Communication technology / PAN • 4G technology allowing quality video calling • Wi-fi / MAN • Embedded GIS technology allowing you to show your location 	5
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11 (b)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td data-bbox="309 255 491 689" style="width: 25%; vertical-align: top;"> <p><u>Social Networking Advantages</u></p> <p>1 mark for each advantage X4</p> </td> <td data-bbox="496 255 1300 689" style="width: 75%;"> <p>Can use anywhere there's a signal</p> <p>Can use 24/7</p> <p>Can use on many different devices</p> <p>Can let large groups know about events quickly (e.g. birth of a child)</p> <p>Can catch up with world news, events and trending topics</p> <p>Can make new friends based on interest groups</p> <p>Can vote on products/services to let others know your opinion and influence choices</p> <p>Can see others opinions on products/services to help with choice</p> <p>Can save money on phone calls by using chat</p> <p>Police using social networking to catch</p> <p>Community groups making you aware of local events</p> <p>Keeping in touch with people (requires context)</p> </td> </tr> <tr> <td data-bbox="309 696 491 1641" style="width: 25%; 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