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International Education

Cambridge International AS & A Level

INFORMATION TECHNOLOGY **9626/04**

Paper 4 Advanced Practical **October/November 2025**

MARK SCHEME

Maximum Mark: 90

Published

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge International will not enter into discussions about these mark schemes.

Cambridge International is publishing the mark schemes for the October/November 2025 series for most Cambridge IGCSE, Cambridge International A and AS Level components, and some Cambridge O Level components.

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Generic Marking Principles

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptions for a question. Each question paper and mark scheme will also comply with these marking principles.

GENERIC MARKING PRINCIPLE 1:

Marks must be awarded in line with:

- the specific content of the mark scheme or the generic level descriptors for the question
- the specific skills defined in the mark scheme or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.

GENERIC MARKING PRINCIPLE 2:

Marks awarded are always **whole marks** (not half marks, or other fractions).

GENERIC MARKING PRINCIPLE 3:

Marks must be awarded **positively**:

- marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit is given for valid answers which go beyond the scope of the syllabus and mark scheme, referring to your Team Leader as appropriate
- marks are awarded when candidates clearly demonstrate what they know and can do
- marks are not deducted for errors
- marks are not deducted for omissions
- answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

GENERIC MARKING PRINCIPLE 4:

Rules must be applied consistently, e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

GENERIC MARKING PRINCIPLE 5:

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

GENERIC MARKING PRINCIPLE 6:

Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

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Question	Answer	Marks
Task 1 Candidate file **WindAnalysis_**		
1(a)	Columns hidden **not deleted** – only data in columns A, C, H visible	**1**
1(b)	3 × 5 table with borders, formatted consistently, titles centred H&V, Titles 2,3,3 lines Valid attempt at formulae in all cells	**2**
1(b)	NE = correct values SE = correct values SW = correct values NW = correct values	**4**
1(c)	**Single** suitable **chart** created – **bar or column only must see both series**	**1**
1(d)	Series labels clear (NE, SE, SW, NW) in category axis or legend **must see both series** All data clearly explained – chart title, labels and legends	**2**

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Question	Answer	Marks
Task 2 Candidate file **Apple_**, **Bite1_**, **Bite2_**, **AppleCore_** and **OldCore_**		
2(a)	Colour 180,0,0 Fits 300 × 300 px square +/- 5px	**2**
2(b)	Left shoulder higher than right	**1**
2(c)	Darker dimple for stalk Stalk concave Stalk sharp corners, straight top	**3**
2(d)	Both leaves the correct shape and position Both leaves have a visible green gradient	**2**
2(e)	2 circular blooms and radial fills Sizes in proportion	**2**
2(f)	Crescent bloom shown single lighter colour Correct position and proportions	**2**
2(g)	Bite1 image – same size as Apple image and Apple intact Bite1 in correct position with 3 lobes	**2**
2(h)	1st layer has sharp peaks 2nd layer matches 1st layer Layers intersect correctly	**3**
2(i)	Bite 2 image – must look like a bite with 2 layers – no gaps between layers … 2nd Bite in correct position with 3 lobes in 2 layers	**2**
2(j)	2nd Bite Red layer – all curves – sharp peaks – 2nd layer matches Layers intersect correctly meeting at sharp point ft from bite 1 no gaps	**2**
2(k)	Crescent bloom seen at lower end of Bite 1 – no joint Larger circular bloom obscured by 2nd bite as shown Valid Bites (only) have correct and similar/equal depth Valid Bites (only) on left and right aligned suitably Stalk and leaves intact ft	**4**
2(l)	On the core – 3 disenable inner sections Each core section must have curved top and bottom	**2**
2(m)	Core image – Stalk, leaves and 3 pips showing Core image – Pips shape – all curves – no dark outlines not simple ellipse/circle Pips in correct position and proportion	**3**

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Question	Answer	Marks
2(n)	OldCore image – ft sections and outlines – no debris – must be based on the AppleCore image Sections darker than core image – only if first core seen- allow centre section to be the same Pips have a thick outline allow only if changed Core clearly sheared – not rotated – dimple remains at top and stalk is missing All 5 images created and saved as SVG	**5**

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Question	Answer	Marks
Task 3 Candidate files **Bites_**		
3(a)	Frame set to 300 × 400 Frame set to light green RGB 200,255,200 (#C8FFC8) Apple centred	**3**
3(b)	Bite1 appears after 2 seconds Bite2 appears after 4 seconds Core appears after 6 seconds	**3**
3(c)	Apple is static at all times Leaf turns brown Both leaves turn brown – incrementally	**3**
3(d)	Leaves and stalk fall Leaves and stalk fall level with core – turns horizontal Leaves and stalk fall smoothly	**3**
3(e)	AppleCore tweens to OldCore OldCore image withers – stalk and leaves remain Changes take 2 seconds	**3**
3(f)	Images fade out Changes take 2 seconds Images are static throughout changes	**3**
3(g)	Loop after 2 seconds Seamless loop	**2**

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Question	Answer	Marks
Task 4 Candidate files **ArrayTask1_** , **ArrayTask2_**, **ArrayTask3_** and **ArrayTask4_**		
4(a)(i)	Attempt made – any new code	**1**
4(a)(ii)	Adding and displaying data works All the data is displayed and in the correct format An alert appears when `Fname` or `Gname` is empty All entries are cleared when the 'Add to bookings' button is clicked Private appears if `Cname` is blank when data is displayed	**5**
4(a)(iii)	Separate variables declared for `Fname`, `Gname` & `Cname` using `var`, `const` or `let` e.g. `var Fname;` Variable declared for day using `var`, `const` or `let` e.g. `var day`, `const day` or `let day`	**2**
4(b)(i)	`document.getElementById ("variable name").value` used to get any one of values for `Fname`, `Gname`, `day` not `.innerHTML` – only one needs to be seen	**1**

4(b)(ii)	`BookingData.push` used
	`...BookingData.push({variable names});` – ft if names different
	All 4 variables used
	`...({Fname, Gname, Cname, day})`
	`BookingData.push({Fname, Gname, Cname, day});`
		4

4(c)(i)	Attempt to clear names and set variables to `""`	**1**

4(c)(ii)	if `(Fname && Gname)` or `(Fname || Gname)` used anywhere
	`document.getElementById('Fname').value = '';` not `inner.html`
	`document.getElementById('Gname').value = '';`
	`document.getElementById('Cname').value = '';`
		4

4(d)(i)	`{alert('suitable message')}` seen if or else code seen anywhere for detecting missing names	**2**

4(d)(ii)	Any attempt to test for `Cname` being blank
	`... if (document.getElementById('Cname').value=="")` or `===`
	`... if (document.getElementById('Cname').value=="")`
	`{Cname="Private";}`
	... else condition added
	`... else {Cname = document.getElementById('Cname').value;};`
		5

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