TAKE THIS SHEET WITH YOU WHEN PURCHASING A LAPTOP

Hardware Minimum Specifications – Choose Your Own Device

The College recommends that all laptops used by students meet the minimum specifications below to enable suitability for curriculum based activities. College ICT technicians will make every effort to enable connectivity of devices which meet these minimum specifications, assuming there are no technical or other issues outside of their control. An attempt will be made to connect other devices, but parents and students should be aware that connectivity may not be possible if there are technical or other issues.

Year 1 to Year 6

Windows Devices

	Minimum (Basic)	Medium (Increased Performance) Also works in Years 7 and 8
Operating System	Windows 10	Windows 10
Processor *	Dual Core AMD\Pentium or higher	Intel i3, Ryzen 3 or similar
CPU Speed *	2.0Ghz	2.8Ghz
Memory	4GB	6-8GB
Storage Capacity	128GB HDD	128GB SSD
Graphics	N/A	N/A
Antivirus	Windows defender is fine as an AV, as long as it is kept up-to-date. Use of other AV software is at the parent's discretion.	
Battery	All devices will need to last the day. Very few opportunities for students to charge their devices will be available.	
Wireless Connectivity	**802.11ac Wi-Fi (support of 5GHz wireless range is essential)**	
Warranty	An extended warranty or device protection plan is recommended, but is at the parent's discretion.	

Mac Devices

	Minimum
Form Factor	Any MacBook (not iPads)
Operating System	Mac OS X 10.12, latest OSX is best
Processor Type *	*Mac minimum exceeds our College minimum requirements
CPU Speed *	
Memory	
Storage Capacity	
Graphics	
Antivirus	**Please install an antivirus. They do not come with one as standard.**
Wireless Connectivity	**All Mac devices meet our wireless requirements.**
Warranty	An extended warranty or device protection plan is recommended, but is at the parent's discretion.

* Due to the ever changing and progressive nature of technologies, Kawana Waters State College cannot guarantee that component level specifications for Processor Type and CPU Speeds will be accurate at the time at which you go to purchase your CYOD device. Please ensure that you utilise this document when making your decisions if you are choosing to buy a device, and provide a copy to your chosen computer supplier to ensure that you are getting a suitable product for your students use. Please consult the KWSC IT Manager if you have any questions or concerns relating to this document. The College cannot tell you what to buy or who to buy from, however we can offer general advice to parents.

TAKE THIS SHEET WITH YOU WHEN PURCHASING A LAPTOP

Hardware Minimum Specifications – BYOxLink (Student Laptop Program)

The College recommends that all laptops used by students meet the minimum specifications below to enable suitability for curriculum based activities. College ICT technicians will make every effort to enable connectivity of devices which meet these minimum specifications, assuming there are no technical or other issues outside of their control. An attempt will be made to connect other devices, but parents and students should be aware that connectivity may not be possible if there are technical or other issues.

Student subject choices and interests should be considered when deciding what laptop should be purchased. See below for the subject list.

Year 7 to Year 12

Windows Devices

	Minimum	Medium	High
Operating System	Windows 10	Windows 10	Windows 10
Processor *	Core i3, Ryzen 3 or similar Pentium/AMD	Core i5, Ryzen 5 or similar	Core i5-i7, Ryzen 5-7
CPU Speed *	2.0Ghz or higher	3.0Ghz or higher	3.2Ghz or higher
Memory	4GB or more	8GB or more	8GB (16GB Recommended)
Storage Capacity	128GB SSD	256GB SSD or higher	256GB SSD or higher
Graphics	Check the requirements of Subject	1GB (check the requirements of the subject)	2GB (check the requirements of the subject)
Antivirus	Antivirus software **MUST** be installed on their device and are required to keep it regularly updated. Note: There are many free AVs and Windows 10 comes with Windows defender which is fine if kept updated.		
Battery	All devices will need to last the day. They cannot be charged on College grounds due to Occupational Health and Safety reasons and the high chance that the machine will be damaged due to cords being run around the classes.		
Wireless Connectivity	**802.11ac Wi-Fi (support of 5GHz wireless range is essential)**		
	NOTE: For Students wishing to study CAD, Multimedia or some Arts subjects, the best device specifications would be a device in the Medium or High specifications above. Please consult the subject chart for recommended device levels for subjects.		
Warranty	An extended warranty or device protection plan is recommended, but is at the parent's discretion.		

Mac Devices

	Minimum	Recommended
Form Factor	MacBook	MacBook
Operating System	Mac OS X 10.12, latest OSX is best	Mac OS X 10.12, Latest OSX is best
Processor Type *	*Mac minimum exceeds our College minimum requirements	Intel Core i5 or higher
CPU Speed *		3.2Ghz or higher
Memory		8GB or more
Storage Capacity		256GB or higher
Graphics		Integrated GPU with at least 1GB
Antivirus	Please install an antivirus as a precaution (free ones are fine). Mac's do get viruses if left unprotected and outdated.	
	Please be aware that some subjects require Windows devices, or a dual boot windows image on their Mac.	
Wireless Connectivity	**All Mac devices meet our wireless requirements.**	
Warranty	An extended warranty or device protection plan is recommended, but is at the parent's discretion.	

Years 7 and 8 do not have elective units and should therefore be able to use a device with the minimum specifications. It is recommended to use something that the student is comfortable and familiar with. Please consult the store about the purchase and ensure that it will run the required applications listed in the 'General Capabilities' section below.

Years 9-12 are elective years and will require consulting the following subject guide for the required device level. With this then please refer to the minimum specifications.

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Other Accessories and Requirements	Software
• Protective case / hard cover (not mandatory, although highly recommended) • Headphones • USB Thumb Drive • Mice – The College does not lend these out and they are not to be taken from the College machines	See the College website for a list of available software: **https://kawanawaterssc.eq.edu.au/Facilities/Computersandtechnology/Pages/Software.aspx** Free 5TB Departmental OneDrive storage space for all students as part of the O365 subscriptions that they get from being enrolled in a Department of Education School.

Faculty Device Specification Requirements for Laptops

Please see below for the minimum device specs per subject. The asterisked boxes indicate the level of device needed for that class.

General Capabilities - All Students and Subjects (not listed below) minimum		Minimum	Medium	High
Subjects that are not listed below are assumed to require minimum specification machines.				
Word processing and presentations	Office Suite. OneNote is also used and essential to the delivery of the curriculum at the College.	✳		
Internet	Inbuilt internet browsers	✳		
Basic Adobe use	Basic Adobe Photoshop and similar use (per Adobe Photoshop minimum specs current for 2019)	✳		
All students will need to have a machine. If they are not in the bellow subjects then the General Capabilities applies. Please ensure that the device is as close to the specifications as possible.				

Film and Television (FTV)		Minimum	Medium	High
High level video editing	Involves editing captions, complex scene transitions, edit sound track, and edit video lightness and contrast etc. Software such as Adobe Premier Pro will be used. This is heavy device resource usage software. Minimum 2GB GPU Graphics card required.		✳	Better
High level audio editing	Involves editing wave forms, removing sound artefacts, fade and levels. Software such as Adobe Captivate will be used for this. Average device requirements to run this software.		✳	
High level photo editing	Involves editing selections and elements within photographs, working with layers and levels and editing RAW files. Software such as Adobe Photoshop will be used for this. This is an average resource using software.		✳	
High level drawing / painting	Involves on screen drawing of complex shapes, features multiple pen and brush types to create complex pictures. There are several software types that are used for this such as Adobe Illustrator. This is an average device resource usage software. Minimum 1GB integrated or 2GB dedicated GPU Graphics card required.		✳	Better

Certificate III in Visual Arts		Minimum	Medium	High
High level photo editing	Involves editing selections and elements within photographs, working with layers and levels and editing files. Software such as Adobe Photoshop will be used for this. This is an average resource using software.		✳	

ICT	Class Require Windows Devices or Mac with windows	Minimum	Medium	High
Making Movies	Adobe Suite; Premier Pro, InDesign and others. Audacity for audio. Minimum 2GB GPU Graphics card required.		✳	
Coding / Programming	Involves using a programming language to create computer programs or device applications. Adobe Dreamweaver or similar can be used for this.		✳	
Website Building	Windows devices are required. Or a dual boot Mac with windows installed. Hosting server from USB will require Windows environment to run. Programming languages will also be run and tested using Windows OS. Adobe Dreamweaver may be used to create this content.		✳	
Teacher Note: Devices are vital for this class. It will not be possible to enter this class without them. Windows machines are preferred, or a Windows boot option on a Mac.				

Graphics	Class Require Windows Devices or Mac with windows	Minimum	Medium	High
High level Graphics Renderings	Creating files in AutoCAD, Inventor and Revit for use of 3D modelling and drafting purposes. This requires Windows devices or a Mac running dual boot with a Windows environment to work. Minimum 1GB GPU Graphics required (see AutoDesk support online for more information).		∗	
Teacher Notes: The software that the students will be using is industry standard. However, it is only available to run on Windows devices. Please ensure that the student has a Windows device, or the Mac can run Windows for use of this software.			

Cert IV in Design		Minimum	Medium	High
High level photo editing	Involves editing selections and elements within photographs, working with layers and levels and editing files. Software such as Adobe Photoshop will be used for this. This is an average resource using software.		∗	
High level Graphics Renderings	InDesign, Photoshop and illustrator are used. Creating files for use in 3D modelling. Minimum 1GB integrated or 2GB dedicated GPU Graphics card required.		∗	
Website Creation	Adobe XD is used for this function.		∗	

Design (Industrial)	Class Require Windows Devices or Mac with windows	Minimum	Medium	High
High level Graphics Renderings	Creating files in AutoCAD, Inventor and Revit for use of 3D modelling and drafting purposes. This requires Windows devices or a Mac running dual boot with a Windows environment to work. Minimum 1GB GPU Graphics required (see AutoDesk support online for more information).		∗	
Teacher Notes: The software that the students will be using is industry standard. However, it is only available to run on Windows devices. Please ensure that the student has a Windows device, or the Mac can run Windows for use of this software.			

Media Arts in Practice		Minimum	Medium	High
High level video editing	Involves editing captions, complex scene transitions, edit sound track, and edit video lightness and contrast etc. Software such as Adobe Premier Pro will be used. This is heavy device resource usage software. Minimum 2GB GPU Graphics card required (Premier Pro)		∗	Better
High level audio editing	Involves editing wave forms, removing sound artefacts, fade and levels. Software such as Adobe Captivate will be used for this. Average device requirements to run this software.		∗	
High level Graphics Renderings	Photoshop and illustrator are used. Minimum 1GB integrated or 2GB dedicated GPU Graphics required (illustrator).		∗	

Fashion and Design		Minimum	Medium	High
Design Software	Creating files for use in 3D modelling. Minimum 1GB integrated or 2GB dedicated GPU Graphics card required (illustrator). Software TBC.		∗	

Certificate II in Creative Industries (Media)		Minimum	Medium	High
High level Graphics Renderings	InDesign, Photoshop and illustrator are used. Creating files for use in 3D modelling. Minimum 1GB integrated or 2GB dedicated GPU Graphics card required (illustrator).		∗	

Dance		Minimum	Medium	High
High level video editing	Involves editing captions, complex scene transitions, edit sound track, and edit video lightness and contrast etc. Software such as Adobe Premier Pro will be used. This is heavy device resource usage software. Minimum 2GB GPU Graphics card required (Premier Pro)		∗	Better

If you have any questions about the required software for a class please check with the class teacher.
A list of school supplied and discounted software is available on the Kawana Waters State College website under 'Student Laptop Program'.
Link: https://kawanawaterssc.eq.edu.au/Facilities/Computersandtechnology/Pages/Computersandtechnology.aspx

For this document and IT related questions, please contact the Kawana Waters State College IT Manager.