

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 22H2 or 11 only | Windows 10 22H2 or 11 only |
| Processor * | AMD Athlon Silver 3000 series or better, Intel Celeron 6 th gen or better | Intel i3 6 th gen or better, AMD Ryzen 3 or better |
| CPU Speed * | 2.0Ghz or faster | 2.8Ghz or faster |
| Memory | 4GB minimum, 8GB preferred | 8GB |
| Storage Capacity | 128GB HDD minimum, 256GB HDD preferred | 256GB SSD |
| Graphics | N/A | N/A |
| Antivirus | Windows Defender is built into Windows 10 / 11, is free, and is suitable so 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 12 (Monterey) minimum, latest OSX is best | |
| Processor Type * | *Mac minimum exceeds our College minimum requirements | |
| CPU Speed * | | |
| Memory | | |
| Storage Capacity | | |
| Graphics | | |
| Antivirus | Please install an antivirus product. Macs 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 – BYOLink (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 22H2 or 11 only | Windows 10 22H2 or 11 only | Windows 10 22H2 or 11 only |
| Processor * | Core i3 6 th gen or better, AMD Ryzen 3 or better | Core i5 6 th gen or better, AMD Ryzen 5 or similar | Core i5-i7 6 th gen or better, AMD Ryzen 5-7 or better |
| CPU Speed * | 2.0Ghz | 3.0Ghz or higher | 3.2Ghz or higher |
| Memory | 8GB or more | 8GB or more | 16GB |
| Storage Capacity | 256GB SSD | 256GB SSD or higher | 512GB SSD or higher |
| Graphics | Check subject requirements | 1.5GB (check subject requirements) | 2GB (check subject requirements) |
| Antivirus | Antivirus software MUST be installed on their device and are required to keep it regularly updated. Note: There are many free AVs available. Windows Defender is built into Windows 10 / 11, is free, and is suitable so long as it is kept up to date. | | |
| 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 classrooms. | | |
| 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 12 (Monterey) minimum, latest OSX is best | Mac OS X 12 (Monterey) minimum, 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, 16GB preferred (check subject requirements) | |
| Storage Capacity | | 256GB or higher | |
| Graphics | | Integrated GPU with at least 1GB (check subject requirements) | |
| 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 |
|---|---|
| <ul style="list-style-type: none"> 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 | <p>See the College website for a list of available software: https://kawanawaterssc.eq.edu.au/Facilities/Computersandtechnology/Pages/Software.aspx</p> <p>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.</p> |

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. A license for Office 365 is provided to all enrolled students – you do not need to buy this. | * | | |
| 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 1.5GB 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. | | * | Better | | | |
| Coding / Programing | 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 1.5GB GPU Graphics required (see AutoDesk support online for more information). | | * | Better |
| 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 | | | | |
|--------------------------------|--|--|---|--|
| 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 1.5GB integrated or 2GB dedicated GPU Graphics card required. | | * | |
| Website Creation | Adobe XD is used for this function. | | * | |

| Design (Industrial) | | | | |
|--|---|--|---|--------|
| 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). | | * | Better |
| 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 | | | | |
|--------------------------------|--|--|---|--------|
| 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 1.5GB integrated or 2GB dedicated GPU Graphics required (illustrator). | | * | |

| Fashion and Design | | | | |
|--------------------|---|--|---|--|
| Design Software | Creating files for use in 3D modelling. Minimum 1.5GB integrated or 2GB dedicated GPU Graphics card required (illustrator). Software TBC. | | * | |

| Certificate II in Creative Industries (Media) | | | | |
|---|---|--|---|--|
| High level Graphics Renderings | InDesign, Photoshop and illustrator are used. Creating files for use in 3D modelling. Minimum 1.5GB integrated or 2GB dedicated GPU Graphics card required (illustrator). | | * | |

| Dance | | | | |
|--------------------------|--|--|---|--------|
| 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.