Choosing the best device for our upper school 1:1 program is an annual process. This coming year, all upper school students may once again bring their own device (BYOD) for the 2019-2020 school year. Minimum requirements, listed below, must be met in order for the device to be approved for school use. The students need to be familiar with and comfortable using their personal devices, and will be responsible for ensuring they know how to operate their devices in the classroom.

WHAT ARE THE MINIMUM SPECIFICATIONS FOR COMPUTERS?
The minimum specifications for devices brought to the upper school are:

• Processor: i5 or equivalent
• OS: Windows 10 or Mac iOS 10.12 (Sierra) or higher
• Memory: 8GB recommended and required for Photoshop, video editing, digital photography, web design, sports marketing and 3D animation classes

NOTE: An expandable memory slot up to 16GB is useful.

• If your child is potentially interested in taking the Studio Production and Film classes, then a Graphics Card with a minimum 1GB of VRAM for GPU-accelerated performance will be needed.
• Hard drive size – minimum 120 GB, solid state recommended
• Optical drive - optional - not required
• Wireless capability - 802.11AC recommended

• Ability to operate normally on a daily basis. This includes battery longevity, connecting wirelessly, booting up, running without errors, and speed of use.

NOTE: Students are expected to bring their computer fully charged each day. We are limited on the use of extension cords and surge protectors in class rooms by the Fire Marshall.

• PCs must have anti-virus software that is kept up-to-date. If viruses become more prevalent on Mac computers, then we will revisit the need for anti-virus software on them.

Avast is an anti-virus software programs that is free for families to use.

NOTE: both Macs and PCs are susceptible to malware and adware. We have seen quite a bit on both types of devices this past year and recommend software to prevent these. Avast for PCs and Avast Mac Security (both free) will handle this as well.

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WHAT COMPUTERS ARE BEING OFFERED THROUGH THE SCHOOL THIS YEAR?
There are two Lenovo computers available this year for purchase through CDWG. (These devices are subject to change based on availability.) Please note, if your child will be using their device for any creative or design software (ex: Photoshop) we highly recommend the ThinkPadT460.

OPTION #1:
Lenovo Thinkpad L380 Yoga

**SPECS:**
- Flip design
- Core i5 8350U / 1.7 GHz
- Win 10 Pro 64-bit
- 8 GB RAM
- 256 GB SSD TCG Opal Encryption 2 NVMe
- 13.3” IPS touchscreen 1920 x 1080 (Full HD)
- UHD Graphics 620
- Wi-Fi
- Bluetooth

Families will order directly from CDWG beginning May 27 by contacting Brennan Geis by phone or email at bregeis@cdw.com or 1-866-339-0352.

Please note that students who are not purchasing through the school will need to schedule a time to bring in their devices to test connectivity and setup prior to the start of school. The Help Desk, located in the Kirven building library, is open Monday-Thursday during the summer from 8:30 a.m.-2:00 p.m., except for the summer hiatus days (July 2-July 16). Please email jfentress@brookstoneschool.org to schedule an appointment.

WHAT DEVICE CAN MY CHILD BRING?
Just about any laptop, PC or Mac, is acceptable to use. As long as the device has a working browser, students can access the tools they need. iPads, Android tablets, smart phones, iPods, iTouch, and other devices will not be sufficient for school use. While these devices are useful for many activities, they are not as useable or are not supported by software used in some classes. Full-fledged computers will allow students to be more productive in creating some digital media, such as video and graphic arts. The upper school administration and faculty feel students will need the full capability of a computer, either Mac or PC.

OPTION #2:
Lenovo Thinkpad T490

**SPECS:**
- Core i7 8650U / 1.9 GHz
- Win 10 Pro 64-bit
- 8 GB RAM
- 512 GB SSD TCG Opal Encryption 2 NVMe
- 14” IPS touchscreen 1920 x 1080 (Full HD)
- UHD Graphics 620
- Wi-Fi
- Bluetooth
WILL MY CHILD NEED MICROSOFT OFFICE?
Brookstone is a Google Apps school, meaning we use Gmail along with the suite of available Google products including, but not limited to, Documents, Spreadsheets, Presentation, and Forms. Having access to these eliminates the need to have specific software loaded onto every student computer or to access space on school servers to store files. Therefore, students are not required to have Microsoft Office installed on their device, although it is more robust than the Google applications at this point in time.

WHAT IF OUR DEVICE NEEDS REPAIR?
Students who use the Lenovo devices purchased through CDWG may use the school Help Desk for support and repairs. After identifying the problem, if parts or other service is needed, the student will check out a spare computer for use while theirs is shipped off for repair.

Students with devices purchased elsewhere who may have technical issues with their computer need to take care of this issue by working with the user’s manual that came with the device outside of the classroom or by taking it to an external repair shop certified to make repairs to their computer. Our employees may evaluate devices to help determine the cause of an error, but are not certified to make repairs on these devices. Unauthorized service would void the warranty.