Technical Requirements

This document describes the hardware, software, and network requirements for the PLTW Game Design and Development (GDD) module in the following sections:

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• Hardware Requirements
• Allow Lists
• Software Requirements
• Questions?
Hardware Requirements

**Important:** These hardware requirements are common across ALL courses in the PLTW Computer Science program.

You will need a computing platform for each teacher and student taking this course. A desktop or laptop is preferred. The following are the minimum computer specifications.

<table>
<thead>
<tr>
<th>Device Element</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Processor with a clock speed of 1.6 GHz or better</td>
</tr>
<tr>
<td>RAM</td>
<td>1 GB+</td>
</tr>
<tr>
<td>Hard Drives</td>
<td>250 GB +</td>
</tr>
<tr>
<td>Video</td>
<td>Computer that is less than five years old with a dedicated video card, or a laptop that is less than three years old with an integrated video card</td>
</tr>
<tr>
<td>Operating System</td>
<td>• Windows 7, Windows 8/8.1, or Windows 10</td>
</tr>
<tr>
<td></td>
<td>• macOS 10.11 (El Capitan) and above</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>• External mouse</td>
</tr>
<tr>
<td></td>
<td>• Headphones or earbuds</td>
</tr>
</tbody>
</table>

- Internet access is required for each computer.
- Each classroom must have a digital projector with a screen (or equivalent classroom display hardware) along with the appropriate cables, adapters, or software to connect to the teacher device.

**Distance Learning:** The software used in this module, Roblox Studio, does not support Chromebooks.
Allow Lists

All teacher and student computers must have access to the internet. However, to comply with the Children’s Internet Protection Act (CIPA), unrestricted internet access is prohibited at school sites. IT departments and/or school districts configure allow lists which contain approved domains, URLs, and IP addresses that school computers can access.

Collaborate with the appropriate group to confirm the allow list has been configured for all teacher and student computers.

- General PLTW and Computer Science Program Allow List—comprehensive list for all courses in the PLTW Computer Science program
- You also need to add “*.roblox.com” to your network’s allow list.
- If you cannot add “*.roblox.com,” or are still having issues, see the detailed Allow List for Education here: https://en.help.roblox.com/hc/en-us/articles/115005744663-Troubleshooting-Education-Networks

Software Requirements

Typically, your IT department or your school district installs software on school computers. Collaborate with the appropriate group to confirm that the required software is installed for all student and teacher computers.

Common Software Requirements

The following are software requirements for all courses in the PLTW Computer Science program.

- Chrome or Firefox browser, latest version

Module-Specific Software Requirements

The Game Design and Development module requires Roblox Studio. Choose one of two options to install the software:

- Option 1: Install Roblox Studio on all student computers, for all users. Follow the instructions Creating Bundled Installers.

  Important Students must still be given permission to update Roblox Studio. Every time an update is published, the software forces users to update after they sign in.

- Option 2: Leave it to the students to install Roblox Studio. Students can follow the detailed instructions on how to create a Roblox account and install the software in the student curriculum.

  Important Students must have permission to install and update Roblox Studio. Every time an update is published, the software forces users to update after they sign in.

For more information about installations, network setup, and please refer to the Roblox Studio installation page.
Questions?

Our friendly PLTW Solution Center team members are here to answer any of your questions. Call us at 877.335.7589 for live, one-on-one support 24/7. You can also email us at solutioncenter@pltw.org.