

# Chromebook Technical Requirements

Based on current hardware and software technologies, Pearson has determined that the technical requirements listed in this document will deliver acceptable operation and performance for Pearson System of Courses on a Chromebook.

Your actual performance may vary due to the following:

- Available network bandwidth
- Number of concurrent users
- Other variables

The suitability of your specific computing environment needs to be re-evaluated whenever there are changes made to the school or district environment.

Because technical requirements are subject to change, always review the latest version of these technical requirements at [Pearson System of Courses Support Information](#).

These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.

Consider the minimum requirements applicable only if your device uses a minimally configured and supported operating system with only this Pearson application installed on the device.

## Requirements for All Platforms

- The teacher and all the students in the class must use the same device type platform (IOS or Windows or Chromebook).
- Starting the school year on one platform and then moving to a different platform is not supported and will cause the app to malfunction.

## Minimum Requirements

<b>Hardware Requirements</b>	<ul style="list-style-type: none"> <li>● Chromebook with Chrome OS for every student and teacher               <ul style="list-style-type: none"> <li>○ 32 bit or 64 bit</li> <li>○ 4 GB RAM</li> <li>○ Screen resolution:                   <ul style="list-style-type: none"> <li>■ 1366x768 with 16:9 aspect ratio</li> <li>■ 1280x800 with 16:10 aspect ratio</li> </ul> </li> <li>○ Touch or Non-Touch device</li> <li>○ *SSD storage type (strongly recommended)</li> </ul> </li> <li>● Keyboard and mouse/touchpad (grades 2-12) for assessments</li> <li>● Disk storage: See <a href="#">below</a> for storage planning</li> </ul> <p>*Chromebooks using eMMC storage, 2 GB RAM and lower bandwidths are at a risk for poor performance.</p>
<b>Software Requirements</b>	<ul style="list-style-type: none"> <li>● Pearson System of Courses Chromebook app</li> <li>● Latest Chrome operating system</li> </ul>
<b>Network Requirements</b>	<ul style="list-style-type: none"> <li>● Wireless network using 802.11n/ac Wi-Fi standards</li> <li>● Internet bandwidth of 800 Kbps per user for general app usage</li> <li>● Internet bandwidth of 1.5 Mbps per user for Over-the-Air content provisioning</li> <li>● At least one access point per classroom</li> <li>● Access point capacity planning: Estimate TCP/IP 5 connections per device, per access point at maximum</li> </ul>
<b>Data Requirements</b>	<ul style="list-style-type: none"> <li>● Roster data synchronization 2 to 3 times per week</li> <li>● Data files for students, staff, courses, sections, section enrollment, and related data</li> </ul>
<b>Other Requirements</b>	<ul style="list-style-type: none"> <li>● Ability to install an app from the platform's app store either using a mobile device management (MDM) solution or manual installation</li> <li>● User authentication requires school district Active Directory integration or Pearson System of Courses authentication process with district-provided usernames and passwords</li> <li>● Each Google user login on the device will only support a single Pearson System of Courses app login</li> </ul>

## Disk Requirements

**Required:** 1.5 GB per user for the Pearson System of Courses app and user-generated content (UGC), plus content storage on the device as per below (size in gigabytes).

**Note:** Size of UGC can vary based on types of user-generated content. Video content will require more space on the device. Storage for this content can vary based on the number of users per device and should be planned and calculated as needed.

Grade	Content	Size	Grade	Content	Size	Grade	Content	Size
K	ELA	5.5	K	Math	1.5	K	ELA + Math	7.0
1	ELA	5.7	1	Math	1.8	1	ELA + Math	7.5
2	ELA	3.6	2	Math	1.8	2	ELA + Math	5.4
3	ELA	1.8	3	Math	1.7	3	ELA + Math	3.5
4	ELA	2.0	4	Math	2.2	4	ELA + Math	4.2
5	ELA	2.0	5	Math	2.5	5	ELA + Math	4.5
6	ELA	1.7	6	Math	2.5	6	ELA + Math	4.2
7	ELA	2.0	7	Math	2.4	7	ELA + Math	4.4
8	ELA	1.9	8	Math	2.9	8	ELA + Math	4.8
9	ELA	1.0	9	Math	1.6	9	ELA + Math	2.6
10	ELA	1.0	10	Math	1.8	10	ELA + Math	2.8
11	ELA	0.9	11	Math	1.9	11	ELA + Math	2.8
12	ELA	0.5	12	Math	N/A	12	ELA + Math	0.5