

Ascend Technology Requirements

Ascend is designed to be accessible to students and teachers from school or at home, on any Internet-connected computer or tablet. Ascend supports Internet Explorer or Google Chrome on PCs and Safari or Google Chrome on Macs.

Recommended Technology Setup

PC:

Operating System: Windows 10

Browsers: Microsoft Edge
OR Google Chrome 69

4 GB RAM

600 MB free hard drive space

Intel i3 or higher

Monitor/Video Card Requirements:

Resolution: 1280 X 720 or better

Plugin:

For Administrators and Teachers
Only:

Adobe Reader 10 or higher

Mac:

Operating System: Mac OS 12

Browsers: Safari 12 or
higher OR Google Chrome
69

4 GB RAM

600 MB free hard drive space

Intel i3 or higher

Chrome Book:

Operating System: Chrome OS
69

Browser: Google Chrome 69

2 GB RAM or higher

300 MB free hard drive space

Celeron 1.1GHz or higher

Minimum Technology Setup

PC:

Operating System: Windows 7

Browser: IE 11.x or higher
OR Google Chrome 36

2 GB RAM
300 MB free hard drive space
Pentium Core Duo or higher

Monitor/Video Card

Requirements:

Resolution: 1024 X 768

Plugins:

For Administrators and Teachers
Only:

Adobe Reader 9 or higher

Mac:

Operating System: Mac OS 10.5

Browser: Safari 5 or higher
OR Google Chrome 36

2 GB RAM
300 MB free hard drive space

Chrome Book:

Operating System: Chrome OS
36

Browser: Google Chrome 24

2 GB RAM or higher
300 MB free hard drive space
Celeron 1.1GHz or higher

Tablets Supported

iPads with iOS 11 or higher
Most tablets running Android 7.0 or higher
Chrome Book

Specific Domains

The following domains and their subdomains need to be made available on any device that will be using Ascend. The domains will need to be added to your network firewall and Internet Explorer's trusted sites.

Domains:

streamhoster.com
mathjax.org
ascendmath.com
myascendmath.com

DNS Settings:

If you are running your own DNS server, you will need the following addresses

www.myascendmath.com resolves to 52.42.22.70
m.myascenmath.com resolves to 52.35.15.110
g.myascendmath.com resolves to 52.10.248.125
kb.myascendmath.com resolves to 52.10.76.152
streamhoster.com resolves to 67.222.106.119
mathjax.org resolves to 104.25.204.18

Bandwidth Requirements

The required streaming rate of the videos is 62.5 KB/S for each student. The following calculations are based on how many students will be concurrently using Ascend, not how many student licenses you have. For example, if 5 students are streaming at the same time, the required streaming rate is $5 * 62.5 \text{ KB/S} = 312 \text{ KB/S}$. If 25 students are streaming at the same time, the required streaming rate is $25 * 62.5 = 1562.5 \text{ KB/S}$ or about 1.5 MB/S.