

## System Requirements for 2011-2012 Cognitive Tutor *(Doesn't include MATHia software)*

<b>Student and Teacher Computers For All Software Deployments</b>		
<b>MICROSOFT WINDOWS®</b>		
	<b>Minimum Supported</b>	<b>Recommended (Or Better)</b>
Operating System	Windows® XP	Windows® 7
Processor	1 GHz	1.5 GHz
RAM	1 GB	2 GB
Monitor	800 x 600 resolution High Color (16 bit)	1024 x 768 resolution High Color (16 bit)
Network	Wired: 100 Mbps Ethernet or Wireless: 54 Mbps 802.11g	Wired: 1 Gbps Ethernet or Wireless: 108 Mbps 802.11n
Disk Space	20 MB free**	
Web Browser	Internet Explorer: 7.0 or later Firefox: 3.0 or later	
Java	Version 1.6.0_08 or most current version of Java	
<b>APPLE MACINTOSH®</b>		
	<b>Minimum Supported</b>	<b>Recommended (Or Better)</b>
Operating System	Mac® OS X 10.5.8	Mac® OS X 10.6
Processor	1 GHz	1 GHz, Intel recommended
RAM	1 GB	2 GB
Monitor	800x600 resolution Colors set at Thousands	1024x768 resolution Colors set at Thousands
Network	Wired: 100 Mbps Ethernet or Wireless: 54 Mbps 802.11g	Wired: 1 Gbps Ethernet or Wireless: 108 Mbps 802.11n
Disk Space	20 MB free**	
Web Browser	Safari 5.0 or later	
Java	Version 1.6.0_08* or most current version of Java	

\*Note: Java 1.6.0 is not available for Macs with 32-bit processors, so the latest update of Java 1.5 published from Apple is acceptable.

\*\*Note: 500MB of disk space is required if installing the LMS client.

**Internet Connectivity**

Remote Hosted implementations, including Carnegie Learning ONLINE, require reliable broadband Internet access from the school to the Carnegie Learning's servers. The initial Cognitive Tutor® launch requires a 6MB download that is stored in the user's local Java cache.

- **Wireless Connection:** When using a wireless network, no more than 25-30 computers should be connecting to a single wireless access point at one time.
- **For Capacity Planning:** For less than 50 concurrent student users, allocate a minimum of 1Mbps Internet bandwidth total. For 50 or more concurrent student users, allocate a minimum of 16kbps per user.

**Implementation Options**

- **Carnegie Learning ONLINE 2011-2012 Cognitive Tutor® with Java WebStart:** Carnegie Learning ONLINE provides a flexible option for implementing the Cognitive Tutor® software and keeping the software updated via the Internet. The Carnegie Learning ONLINE option allows students and teachers to access from anywhere. This implementation option also allows students to use Cognitive Tutor® Review which is only available through Carnegie Learning ONLINE. Teachers can create custom curricula using this implementation option. The installation can be run on any machine meeting the standard system requirements for the client computers. No install CD is required and multiple computers can download and install the software simultaneously. Installation is only required on individual teacher and student computers, and no local server is necessary. All data is stored on Carnegie Learning's server and accessed remotely by the client computers via a reliable Internet connection. Carnegie Learning handles all server maintenance, including server upgrades and data backups. Using Java WebStart assures that all machines running the Cognitive Tutor® will have access to the most current updates and provides a simpler initial deployment and update process. A School ID assigned by Carnegie Learning Customer Support is required. You can access your School ID and launch the software by going to the Carnegie Learning Resource Center at <http://resources.carnegielearning.com>.
- **Remote Hosted (LMS Client):** Installation is only required on individual teacher and student computers, and no local server is necessary. Teachers can create custom curricula using this implementation option. All data is stored on Carnegie Learning's server and accessed remotely by the client computers with installed software or via Carnegie Learning ONLINE. Carnegie Learning handles all server maintenance. A School ID assigned by Carnegie Learning Customer Support is required. You can access your School ID by going to <http://resources.carnegielearning.com> and choosing **My Account**.

**Notes**

- *Some laptop computers require adjusted power management settings in order to run Cognitive Tutor® properly when running on battery power.*
- *The Cognitive Tutor® is not compatible with Microsoft Windows Terminal Services.*
- *We cannot guarantee performance for systems not listed under our Minimum Supported specifications.*
- *All installations require a School ID and/or serial number.*
- **Hardware and software technologies change frequently. Carnegie Learning reserves the right to make changes to these system requirements at any time.**