

## Technical Specifications for Scientific Learning Gateway 4.7



# Technical Specifications Scientific Learning Gateway Version 4.7

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## Technical Specifications for Scientific Learning Gateway 4.7

### Stand-Alone or Student Workstation Requirements

Stand-alone/Student Workstation - Windows	
Operating Systems	Windows® XP Home or Professional Service Pack 2 Windows® Vista Service Pack 1 Home, Business, Ultimate, or Enterprise±
Processor	1.2GHz (Intel Pentium IV, Pentium M, Core Duo, Core 2 Duo, AMD Athlon, Turion, Phenom)
Memory	512MB RAM – Windows XP Service Pack 2 2GB RAM – Windows Vista Service Pack 1
Sound Card	Creative Labs SoundBlaster® or 100% compatible with DirectSound support

± Microsoft Windows Vista requires special instructions to install the multimedia contents. Use the following document: [Multimedia Installation instructions for Microsoft Vista \(90kb pdf\)](#)

Stand-alone/Student Workstation - Macintosh	
Operating Systems	OSX 10.4.11 OSX 10.5.7
Processor	Power PC G4 1.25 GHz Power PC G5 1.6 GHz Intel Core 2 Duo 1.5 GHz
Memory	OSX 10.4.11 – 512MB RAM OSX 10.5.7 – 1GB RAM
Sound Card	<b>Reading Assistant Expanded Edition only</b> <a href="#">Andrea Electronics USB Adapter</a> required when using a Macintosh computer (requires one USB port)

Additional Requirements	
Headphones/ Y-adapters	One high quality, stereo headphone set with padded cups that cover the ears. One stereo headphone Y-adapter to allow coaches to listen without interrupting.  <b>Reading Assistant Expanded Edition only</b> Recommended microphone headsets: <ul style="list-style-type: none"> <li>• Abeier Model ACL-109M</li> <li>• Andrea Electronics Model NC-95</li> <li>• Labtec Stereo 332, Axis 302</li> </ul>
Reading Assistant only	Quicktime 6 Standard True Type fonts
Hard Drive space/Flash Drive space	Scientific Learning Gateway: 500 MB for application, 100 MB per student Multimedia installation: 6 GB (optional – see page 5 for details)
Optical Drive	DVD ROM Required for installation
Video Card/Monitor	Minimum supported resolution of 800x600 - and - (Windows Only) support for DirectX9 graphics
Internet Connection	Required for Gateway license registration and Progress Tracker

## Technical Specifications for Scientific Learning Gateway 4.7

### Gateway Server Requirements

Gateway Server - Windows	
Operating Systems	Windows® XP Service Pack 2, Home or Professional Windows® Vista Service Pack 1 Home, Business, Ultimate, or Enterprise±±
Processor	1.5 GHz (Intel Pentium IV, Pentium M, Core Duo, Core 2 Duo, AMD Athlon, Turion, Phenom)
Memory	1GB RAM (XP) 2GB RAM (Vista)

Gateway Server - Macintosh	
Operating Systems	Macintosh® OSX 10.4.11 Macintosh® OSX 10.5.7
Processor	2.0 GHz Power PC G5 1.6 GHz dual core Intel processor
Memory	1GB RAM

Additional Requirements	
Optical Drive	DVD ROM (required for installation)
Network System Capacity	TCP/IP required Maximum 50 simultaneous client connections per SLC Gateway Server (see page 4 for wireless) Maximum 500 enrolled students 10MB switched Ethernet minimum; maximum of 12 computers per switched port
Hard Drive Space	Scientific Learning Gateway: 500 MB for application, 100 MB per student Multimedia installation: 6 GB (optional – see page 5 for details)
Internet Connection	Required for Gateway license registration and Progress Tracker ISDN or faster recommended Microsoft Internet Explorer 6 or Firefox 2.0 with Flash 9 for Virtual Academy

# Technical Specifications for Scientific Learning Gateway 4.7

## Wireless Network Requirements

Wireless Supported Technologies and Requirements	
<b>Supported Technologies: 802.11a, 802.11b, 802.11g, 802.11n</b> NOTE: Bluetooth, Ethernet over electrical, or other similar technologies are not supported.	
<ul style="list-style-type: none"><li>• Elevate access points as much as physically possible (e.g., mounted on ceiling)</li><li>• Install access points a minimum of 3 feet from any florescent light source or loudspeaker</li><li>• Use fixed channels (highly recommended)</li><li>• Using interference robustness reduces the effective maximum distance by 1/3</li><li>• Use encryption (WPA Recommended)</li><li>• When using multiple access points, set channels as far apart as possible (e.g., set Lab 1 access point and stations to Channel 1, set Lab 2 to Channel 9)</li><li>• Connect access points to a wired port on the network, on the backbone or on their own switched port</li><li>• NAT is recommended when using wireless in combination with wired networks</li><li>• Do not use wireless to connect the Gateway server to the network; physically connect this computer to a wired port on the network</li></ul>	
<b>802.11a</b> <b>802.11g</b>	Maximum number of stations per access point: 18-20 Maximum distance between station and access point: 75 feet Minimum distance between access points: no closer than 20 feet
<b>802.11b</b>	Maximum number of stations per access point: 12 Maximum distance between station and access point: 100 feet Minimum distance between access points: no closer than 25 feet
<b>802.11n*</b>	Maximum number of stations per access point: 35 Maximum distance between station and access point: 75 feet Minimum distance between access points: no closer than 10 feet  *If used in mixed environment with 802.11/g, use 802.11g requirements

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### Multimedia Content Hard Drive Space Requirements

#### Multimedia Content Hard Drive Space Requirements±±

NOTE: Installing the content on the hard drive eliminates the need to insert product CDs or DVDs

- 100MB for Fast ForWord Language Basics
- 75MB for Fast ForWord Language v2
- 460MB for Fast ForWord Middle & High School
- 75MB for Fast ForWord Language to Reading v2
- 85MB for Fast ForWord Literacy
- 85MB for Fast ForWord Literacy Advanced
- 100MB for Fast ForWord to Reading Prep
- 360MB for Fast ForWord to Reading 1
- 310MB for Fast ForWord to Reading 2
- 175MB for Fast ForWord to Reading 3
- 300MB for Fast ForWord to Reading 4
- 250MB for Fast ForWord to Reading 5
- 150MB for Reading Progress Indicator
- 500MB for Reading Assistant Expanded Edition

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