

**Appendix A:
Computer Requirements for Use of Odyssey Math**

Odyssey Math Computer Requirements:

Information in this document is currently, however CompassLearning cautions that on-going industry innovation may yield changes.

Odyssey PreK- 8 Browser Based Workstation Requirements July 2006

PLATFORM	OPERATING SYSTEM	CPU	MEMORY	HARD DISK	DISPLAY	SOUND	NETWORK*	WEB BROWSER ^A	PLUG-INS
Windows®	<ul style="list-style-type: none"> • Windows 2000 Pro • Windows XP Pro • Windows XP Home 	Pentium III or greater	128 MB RAM or greater	100 MB available disk space for browser cache.	<ul style="list-style-type: none"> • 800x600 resolution • 256 colors or greater 	Windows Certified Sound Card, speakers or headphones	<ul style="list-style-type: none"> • LAN 10/100 switched to desktop • Internet access via LAN ≥ 128 kbps per concurrent user¹ • Home Access ≥ 128 kbps broadband connection 	<ul style="list-style-type: none"> • Internet Explorer 6.x • Netscape Communicator 7.2, 8.0, 8.1 • Firefox 1.5.0.4 	<ul style="list-style-type: none"> • Macromedia Flash™ Player 8 • Adobe Acrobat Reader® 6 or greater • PrintOMatic™ Xtra™ Plug-in² • Apple QuickTime® Player 7 or greater² • Macromedia Shockwave® Player 10² • Sun Java Virtual Machine 1.4.2³ • Javascript 1.2³ • Java Q Group PLC Applet³
Mac®	Mac OSX 10.3.4, 10.4	G3 processor or greater	256 MB RAM or greater	100 MB available disk space for browser cache.	<ul style="list-style-type: none"> • 800x600 resolution • 256 colors or greater 	Macintosh sound, speakers or headphones	<ul style="list-style-type: none"> • LAN 10/100 switched to desktop • Internet access via LAN ≥ 128 kbps per concurrent user¹ • Home Access ≥ 128 kbps broadband connection 	<ul style="list-style-type: none"> • Netscape Communicator 7.2 • Safari 1.2.x (requires OSX10.3) • Safari 2.0 (requires 10.4) • Firefox 1.5 	<ul style="list-style-type: none"> • Macromedia Flash™ Player 8 • Adobe Acrobat Reader® 6 or greater • PrintOMatic™ Xtra™ Plug-in² • Apple QuickTime® Player² • Macromedia Shockwave® Player 10² • Sun Java Virtual Machine 1.4.2³ • Javascript 1.2³ • Java Q Group PLC Applet³

Odyssey PreK-8 Print and Scan Option: Scantron scanner available through CompassLearning.

Notes

¹ T-1 = 8 - 16 concurrent users, dependent upon available bandwidth and curriculum chosen. Call for consultation or request a site assessment.

² Required to run Pre-K learning activities.

³ Required for ELL content

- Odyssey requires Pop-up blockers be turned off for the Odyssey site.
- Ports 80 and 443 (SSL Encryption) must be open at the firewall.
- Specific browser settings and additional configuration combinations can be found on the Systems Requirements page at <http://www.compasslearningodyssey.com/systemrequirements.html>
- Odyssey PreK-8 may require web caching to enhance performance and increase the number of concurrent users. See a CompassLearning representative.
- Odyssey PreK-8 Enterprise: The Odyssey Writer curriculum stores student work portfolios, allow a minimum of 25 MB per school. Additional space may be required dependent on use model.
- Odyssey PreK-8 Hosted: For Odyssey Writer, 25 MB of online disk storage is available per school. Additional storage is available at additional cost. Contact a CompassLearning sales representative.

BANDWIDTH

- 128 kbps per concurrent user to the host when management and content is retrieved for the main host. (Either the Odyssey PreK-8 Enterprise or Odyssey ASP Web server.)
- 36 kbps per concurrent user to the host when the content is retrieved from a local web cache sever or appliance.
- The number of concurrent users is dependent upon the server configuration, network speed, use and placement of web cache servers or appliances.

NETWORK

Bandwidth Considerations

- Existing network traffic. Is it used for voice too? Streaming video?
- Slow or congested network connections using Odyssey PreK-8 will require web caching and will support a limited number of concurrent users.
- Fractional T1s are not supported.
- 10 mbps or greater typically do not require web caching dependent upon available bandwidth and number of concurrent users.
- Consider measuring bandwidth over a one week period to determine your available bandwidth.
- CompassLearning will perform a Site Assessment at no charge to help determine the proper implementation model for your situation.

ODYSSEY AND WEB CACHING SERVERS

Web Caching Recommended

To enhance web performance and preserve bandwidth, deployment of a Web caching for Odyssey PreK-8 is appropriate for some infrastructures that do not have adequate bandwidth.

Advantages of Web Caching :

- Reduced bandwidth consumption (fewer requests and responses that need to go over the network)
- Reduced server load (fewer requests for the Odyssey server to handle)
- Reduced latency (responses for cached requests are available immediately and closer to the client)
- Increased number of concurrent users for Odyssey and other browser based activities.

WEB CACHE SERVER/APPLIANCE SPECIFICATIONS

Odyssey K-8 is designed from the ground as a browser based application. By design 80% of Odyssey's content is cacheable. Implementing a web caching strategy in your network infrastructure will speed the delivery of the content to your students, while effectively utilizing the available bandwidth.

- Odyssey requires 20 GB of web cache hard drive space for efficient operation.
- Industry standard web caching software. Windows Server 2000/2003 with MS ISA, Volera, BorderManager, or other caching engine on an appropriate server that meets or exceeds the system requirements as published by the developer for the total number of internet/intranet users. (Not just Odyssey concurrent users.)
- Industry standard web cache appliance sized for the total number of internet/intranet concurrent users. (Not just Odyssey concurrent users.)

□ Odyssey operates on properly designed and implemented wireless networks. Recommended users to access point ratio = 15:1

□ The number of concurrent users is dependent upon the network speed, environment and number of users per access point.