



The Dynamic Learning Maps (DLM) system technology requirements will ensure quality and performance for the alternate assessment. This document outlines the *minimum* computer configuration for DLM technology in Table 1, and the *recommended* configuration in Table 2.

Table 1 outlines the DLM minimum requirements in comparison with the minimum specifications of the Smarter Balanced Assessment Consortium (SBAC) and the Partnership for Assessment of Readiness for College and Careers (PARCC).

TABLE 1				
OPERATING SYSTEM/DEVICES	SUPPORTED VERSION	MINIMUM CONFIGURATION	RELATIONSHIP TO OTHER MINIMUM SPECIFICATIONS	
			SBAC	PARCC
Windows	XP, VISTA, 7, 8, Server 2003	XP (service pack 3), Pentium or AMD 500 MHz, 512 MB RAM, 200 MB hard drive space	Different ¹	Same
Mac OSX	10.5, 10.6, 10.7, 10.8	Mac 10.5, Intel x86, 512 MB RAM, 200 MB hard drive space	Different ²	Same
Linux	Ubuntu 9+, Fedora 6+	Ubuntu 9 or Fedora 6, Pentium or AMD 500 MHz, 512 MB RAM, 200 MB hard drive space	Different ¹	Same
Chrome	OS v19+	Chrome OS v19+	Same	Same
iOS Devices	iOS 6+	iPad 2 with iOS 6, 512 MB RAM, Wifi support only	Same	Same
Android Devices	Android 4.0+	Android 4.0, 512 MB RAM, Wifi support only	Same	Same
Windows Tablets	Windows 8	Windows 8, 1 GB RAM, Wifi support only	Same	Different ³
SCREEN AND RESOLUTION REQUIREMENTS				
Screen size		10-inch screen or larger	Same	Different ⁴
Screen resolution		1024 x 768 or better	Same	Same

Explanation of differences:

¹ To achieve quality rendering and clarity in video (such as ASL) and technology enhanced items, DLM requires Windows and Linux systems to use a minimum Pentium III or AMD 500MHz processor, 512MB RAM, and 200 MB of free hard drive space rather than the 233MHz processor, 128 MB RAM, and 52 MB of free hard drive space for the SBAC technology platform.

² To support our Firefox browser, DLM requires Mac with Intel x86 processors and 10.5 OSX+ as Firefox ESR version 10 does not support Mac 10.4 or 10.5 versions using PowerPC processors.

³ To achieve quality rendering and clarity of items, DLM requires Windows tablets have a minimum of 1 GB RAM rather than the 512 GB RAM for the PARCC technology platform.

⁴ To achieve quality viewing of technology enhanced items, DLM requires a minimum screen size of 10 inches whereas PARCC specified minimum screen size of 9.5 inches.

Table 2 outlines the DLM recommended specifications, which will support the best quality and clarity in our assessment in comparison with SBAC’s and PARCC’s recommended technology specifications as of June 2013.

TABLE 2				
OPERATING SYSTEM/DEVICES	SUPPORTED VERSION	RECOMMENDED CONFIGURATION	RELATIONSHIP TO OTHER RECOMMENDED SPECIFICATIONS	
			SBAC	PARCC
Windows	XP, VISTA, 7, 8, Server 2003	Windows 7+, 1.4 GHz processor, 1 GB RAM, 1 GB hard drive free space	Different ¹	Same
Mac OSX	10.5, 10.6, 10.7, 10.8	Mac 10.7+, 1 GHz processor, 1 GB RAM, 1 GB hard drive free space	Same	Same
Linux	Ubuntu 9+, Fedora 6+	Ubuntu 11+ or Fedora 16+, 1 GHz processor, 1 GB RAM, 1 GB hard drive free space	Same	Same
Chrome	OS v19+	Chrome OS v19+	Same	Same
iOS Devices	iOS 6+	iPad 3 with iOS 6 or newer, 1 GB RAM	Same	Different ²
Android Devices	Android 4.0+	Android 4 or newer, 1 GB RAM	Same	Same
Windows Tablets	Windows 8	Windows 8 or newer, 1 GB RAM	Same	Same
SCREEN AND RESOLUTION REQUIREMENTS				
Screen size		10-inch screen size or larger	Same	Different ³
Screen resolution		1024 x 768 or bigger	Same	Same

Explanation of differences:

¹ To achieve best quality rendering and clarity in video (such as ASL) and technology enhanced items, DLM recommends Windows systems to use a 1.4 GHz processor rather than the 1 GHz processor proposed for the SBAC technology platform.

² To achieve best quality rendering and clarity, DLM recommends iPad 3 with 1 GB RAM rather than the iPad2 with 512 MB RAM proposed for the PARCC technology platform.

³ To achieve best quality viewing of technology enhanced items, DLM requires a minimum screen size of 10 inches whereas PARCC specified a minimum screen size of 9.5 inches.



The DLM bandwidth requirements are listed below with two options: *without* a content caching server and *with* a content caching server. Content caching servers are strongly recommended as they protect testing sessions from Internet service disruptions and reduce bandwidth requirements.

WITHOUT CONTENT CACHING SERVER		
	Minimum Bandwidth	Recommended Bandwidth
Per student	40–100 kbps	100 kbps or faster

WITH CONTENT CACHING SERVER		
	Minimum Bandwidth	Recommended Bandwidth
Per student	20–50 kbps	50 kbps or faster