

# Version 4.4 Recommended Spec

This document outlines the recommended hardware specs for *Waterford Early Learning* version 4.4. This spec is intended to optimize user experience. Footnotes indicate system requirements from previous versions that are still supported.



## Client Workstation

	PC	Mac®
<b>Processor</b>	Intel® Pentium 4 or Core™ Duo 1.6 GHz	Intel® Mac 1.8 GHz or higher
<b>Memory</b>	2 GB RAM or higher <sup>1</sup>	2 GB or higher
<b>Hard Drive</b>	At least 10 GB available	At least 10 GB available
<b>Operating System</b>	Windows® XP Professional, Vista Business, 7 Professional	Mac® OS X® 10.5 (Leopard), 10.6 (Snow Leopard)
<b>NIC</b>	One 100 Mbps	One 100 Mbps
<b>Internet</b>	Broadband	Broadband



## Classroom Model Server\*

**< or = 10 Workstations  
(9 clients and server)**

<b>Processor</b>	Intel® Pentium 4 or Core™ Duo 2.4 GHz or higher
<b>Memory</b>	2 GB or higher
<b>Hard Drive</b>	120 GB SATA
<b>Operating System</b>	Windows® XP Professional, Vista Business, 7 Professional Microsoft® SQL Server Express 2005 or 2008 <sup>2</sup>
<b>NIC</b>	1 Gbps <sup>3</sup>
<b>Network</b>	Workgroup switch
<b>Internet</b>	Broadband

\*Up to 9 Mac clients can run in a Classroom Model. However, the server station must be a PC running Windows XP Pro with Windows Services for Unix (NFS) installed. Windows Services for Unix is available as a free download from Microsoft®.

<sup>1</sup> Existing 1 GB RAM is still supported. Waterford recommends upgrading to 2 GB.

<sup>2</sup> Waterford strongly recommends upgrading existing MSDE and SQL Express 2000 installations to SQL Express 2008.

<sup>3</sup> One 100 Mbps NIC card is still supported for up to 5 client workstations.



## Lab or Distributed Model Server

### 11 to 70 Workstations

*(70 clients per server; can scale with multiple servers)*

<b>Processor</b>	One 2.4 GHz Intel Xeon Quad Core Processor <sup>4</sup>
<b>Memory</b>	4 GB <sup>5</sup>
<b>Hard Drive</b>	Four 73 GB SAS or SATA drives in RAID 10 Array <sup>6</sup>
<b>Operating System</b>	Windows® Server 2003 R2® or Server 2008 R2 Microsoft® SQL Server 2008 or 2005 <sup>7</sup>
<b>NIC</b>	1 Gbps
<b>Network</b>	Gigabit switch
<b>CALs</b>	2 per client Station (1 for SQL, 1 for OS) <sup>8</sup>
<b>RAID Card</b>	Dual channel RAID controller with 256 DDR RAM
<b>Internet</b>	Broadband

## Peripherals

*We recommend quality peripherals to maximize user experience.*

<b>Deployment Model</b>	<b>Order One Per</b>	<b>Includes</b>
All	Workstation	1 sturdy headset with microphone (Note: For Mac® workstations, USB headsets are NOT recommended because they may not function properly for recording in Waterford.) 1 mouse pad 1 keyboard cover 1 RJ-45 network cable
All	Classroom	2 surge protectors for networked set of 3 stations 1 Web camera 1 set of speakers 1 Y jack

<sup>4</sup> Existing Dual 2.4 GHz Intel® Xeon Dual Core® is still supported.

<sup>5</sup> Existing 2 GB RAM is still supported. Waterford recommends upgrading to 4 GB.

<sup>6</sup> Existing U320 SCSI drives are still supported.

<sup>7</sup> Waterford strongly recommends upgrading existing Microsoft SQL 2000 installations to 2008.

<sup>8</sup> Users who exceed 45 SQL CALs should consider per-processor licensing.