

eCourses Technical Specifications

eCourses perform optimally when devices used to access the platform meet minimum hardware and software specifications. While eCourses may function properly on lesser hardware/software, Harris Digital Learning can effectively support users only when eCourses are delivered via devices meeting the minimum standards.

Technology

To use Harris Digital Learning eCourses, an end user must have:

- A device that meets or exceeds the minimum required specifications. See specific hardware and software requirements below
- A high-speed Internet connection (suggested minimum: 3 Mbps upload and download speed)
- Media player
- PDF viewer
- Pop-up blocker turned off in all browsers being used for eCourses
- Office suite (Google Docs, Microsoft Office, Open Office, Libre, etc)
 - Most essay responses allow for entry into a WYSIWYG, however some Language Arts courses require writing assignments uploaded as a document).
- Speakers or headphones

Recommended, but not required, items

- Printer
- Mouse
- Keyboard for tablets
- Java enabled
- Audio recording program and microphone (**only** required for foreign language courses)
- Java SDK (only required for Java course)

Device Specifications

While eCourses will function correctly on all configurations configured below, preferred options in each category have been bolded.

Operating System Options	Supported Browsers	Additional Specifications				
PC Users						
Windows 8.1 Windows 10	Edge Latest (96) Chrome 90-9	Minimum 1024×768 screen resolution preferred				
Mac Users						
Mac OS 10.13 over	Safari (latest 2 versions) Chrome (latest 2 versions)	Minimum 1024×768 screen resolution preferred				
Chromebook Users						
Chrome OS		Minimum 1024×768 screen resolution preferred				

TLS Ciphers supported by the Server

TLSv1.2

TLS_EDCHE_RSA_WITH_AES_256_GCM_SHA384 TLS_EDCHE_RSA_WITH_AES_128_GCM_SHAD256

TLSv1.3

TLS_AES_256_GCM_SHA384 TLS_CHACHA20_POLY1305_SHA256 TLS_AES_128_GCM_SHA256

Browser Refresh Settings

Users' Web browsers must be set to refresh every time a page is viewed (instead of loading a page from cache) in order for the system to correctly display updated information.

Email Communication Addresses and Policies:

Edison will be communicating with the users with email address no-reply@HarrisDigitalLearning.com. In order to receive the emails:

- Allow "Harris Digital Learning.com" domain in Anti-spam policy. This will ensure mail will not be diverted to spam folder.
- Whitelist the domain "harrisdigitallearning.com" at Mail exchange, so that emails with links will not be blocked.
- Whitelist "Acadeum.com" and any teaching University domains for which students are taking a Dual Enrollment course.

Firewall IP Addresses and Ports

Your firewall must allow outbound traffic to the following Internet addresses in order to access our content:

pub.harrisdigitallearning.com TCP port 80 (HTTP) and TCP port 443 (HTTPS) • esw.harrisdigitallearning.com TCP port 80 (HTTP) and TCP port 443 (HTTPS) courseplayer.Harrisdigitallearning.com TCP port 80 (HTTP) and TCP port 443 (HTTPS) • media.harrisdigitallearning.com TCP port 80 (HTTP) and TCP port 443 (HTTPS) mediacdn.harrisdigitallearning.com TCP port 80 (HTTP) and TCP port 443 (HTTPS) proxy.harrisdigitallearning.com TCP port 80 (HTTP) and TCP port 443 (HTTPS) SmartFox server • TCP port 9339 caolacourses.harrisdigitallearning.com (if applicable) TCP port 80 (HTTP) and TCP port 443 (HTTPS) portal.harrisdigitallearning.com (if applicable) TCP port 80 (HTTP) and TCP port 443 (HTTPS) harrisdigitallearning.speechstream.net TCP port 80 (HTTP) and TCP port 443 (HTTPS) • sscache.speechstream.net TCP port 80 (HTTP) and TCP port 443 (HTTPS) • configuration.speechstream.net • TCP port 80 (HTTP) and TCP port 443 (HTTPS) connect.discoveryeducation.com TCP port 80 (HTTP) and TCP port 443 (HTTPS) • app.discoveryeducation.com TCP port 80 (HTTP) and TCP port 443 (HTTPS) • www.explorelearning.com TCP port 80 (HTTP) and TCP port 443 (HTTPS) • Or simply allow:

- TCP port 80 (HTTP) and TCP port 443 (HTTPS) to any host ending in ".harrisdigitallearning.com"
- TCP port 80 (HTTP) and TCP port 443 (HTTPS) to any host ending in ".provostacademy.com"
- TCP port 80 (HTTP) and TCP port 443 (HTTPS) to any host ending in ".speechstream.net"
- TCP port 80 (HTTP) and TCP port 443 (HTTPS) to any host containing ".discoveryeducation.com"
- TCP port 80 (HTTP) and TCP port 443 (HTTPS) to any host containing "explorelearning.com"
- TCP port 9339 to host 208.67.121.216

Technology Assessment

Please perform an assessment of the device(s) that will be used with eCourses prior to implementation. This will confirm that they meet the above minimum requirements. If they do not meet these requirements, please update the hardware and/or software to meet these specifications.

Compatibility Test Procedure

- 1. Using a supported browser connected to the internet, go to: https://esw.harrisdigitallearning.com
- 2. On the login page, enter the following test credentials and click the **Sign In** button:

Username: siteready Password: welcome

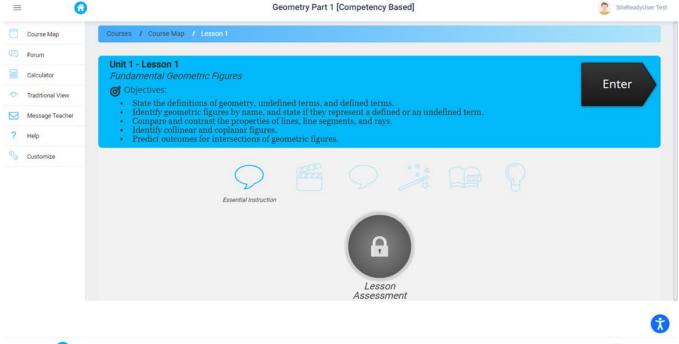
The student portal homepage should load and resemble the following screenshot.

R	HARR Digital Lear	IS
6		
Username		
Password		
Forgot Password		Sign in

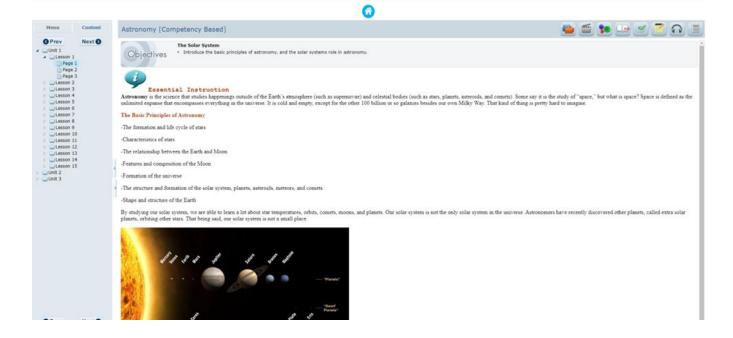
3. Select a course name or its icon to expand its "accordion" drawer. Inside, the individual course parts are listed, with the greyed out locked course parts indicating the student isn't actively enrolled in that course part. Click or tap anywhere in the white box for a course part to enter the course. If you don't see a course open, it may have been blocked by a pop-up blocker, so please make sure to always allow pop-ups for this site.

HARRIS		٥	SteReadyL	iser Test -
Home / Courses	Time in System: 0 Minutes	(2024-2025 GA V	Announcements School Announcements Tesing/26:05:2025-May 26:2025 There are no course announcements.	
Geometry Competency Based # 4 PARTS			My Advisor No advisors found	
Middle School 4 APARTS			Other Information	
Competency Based			My Grades	
		Scholar 11 C1 A1 Dishle Deserved		_(

4. Depending on the course view, the course might look like any of the following screenshots. Make sure to click around the different lesson components and ensure everything loads properly.



≡	o	MyDay		SiteReadyUser Test
	Language Arts			>
	Language Arts 6th Grade Part 1	đ	Lesson 1 Fictional Stories	9
6 🚺 ? 🖑	Grade Course Info		Lesson Video Lesson Video Lesson Assessment Lesson Assessment Reteaching Enrichment Hear More See More	
	Progress -	_		¢



5. After successfully completing these instructions, your compatibility test is complete. If you experience any issues, please let your Harris Digital Learning customer service representative know, or email <u>Online.Support@Harris</u> <u>Digital Learning.com</u> to generate a ticket for the support team, making sure to include all relevant details.