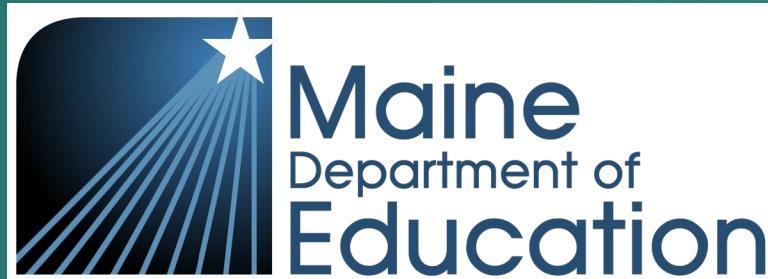


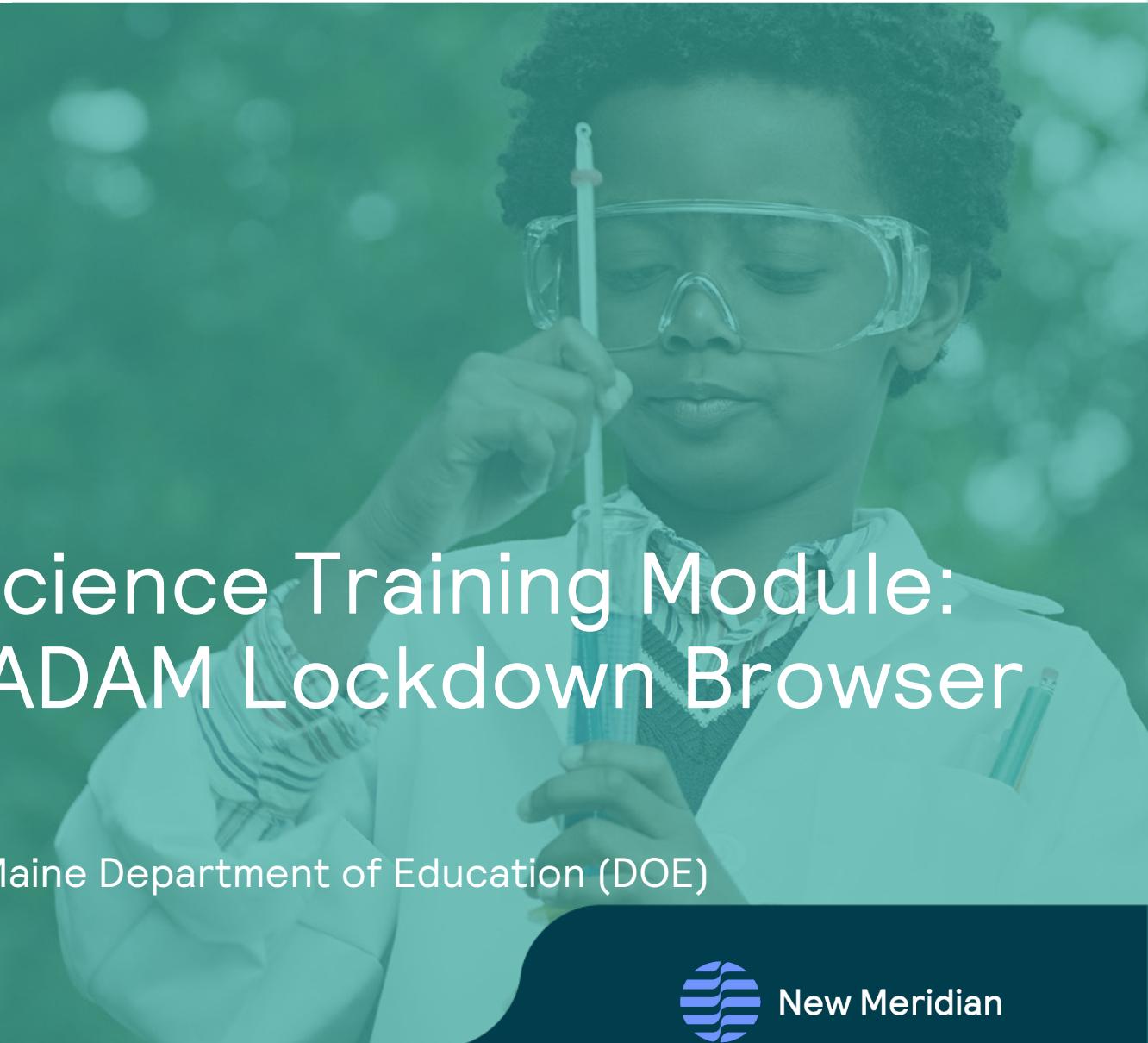


New Meridian
Science Exchange



Welcome to the Maine Science Training Module: Installing and Using the ADAM Lockdown Browser

Sponsor: Krista Averill, Assessment Coordinator, Maine Department of Education (DOE)



New Meridian

Session Overview

- What is the Lockdown Browser?
- Basic steps for download and installation
- Using the Lockdown Browser
- Alert messages and follow up actions
- Common Questions
- Support Resources

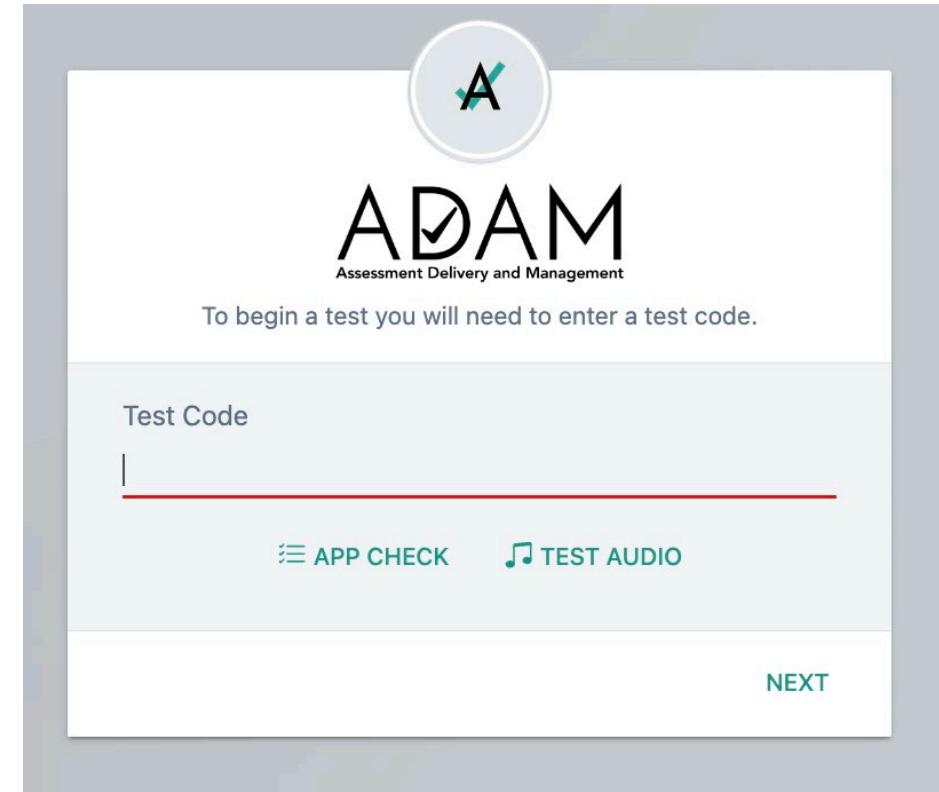


What is the ADAM Lockdown Browser for the Maine Science Assessment?

- ADAM is the online platform for the Maine Science Assessment.
- The ADAM Lockdown Browser is a **custom software application**, based on web browser technology, that is **installed** on each student test-taking device.
- The Lockdown Browser functions as a **dedicated secure online application** just for delivering the Maine Science Assessment.
- Students **launch the test using the Lockdown Browser**, and it “locks down” their device to prevent access to other computer programs or internet sites during the test.
- The Lockdown Browser also ensures students have the same testing experience on any computer device (**desktops, laptops, Chromebooks, and tablets** running **Mac, Windows, iPadOS, ChromeOS**).
- The Lockdown Browser is easy to install and easy to use.

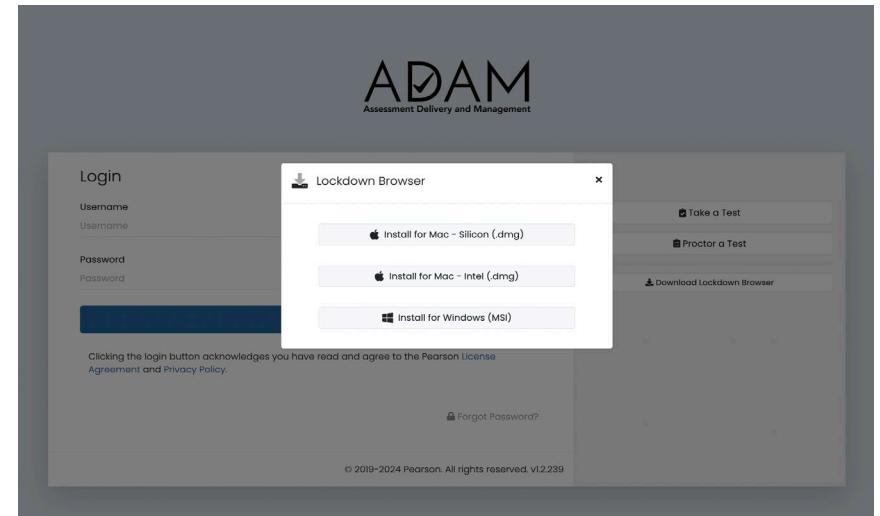
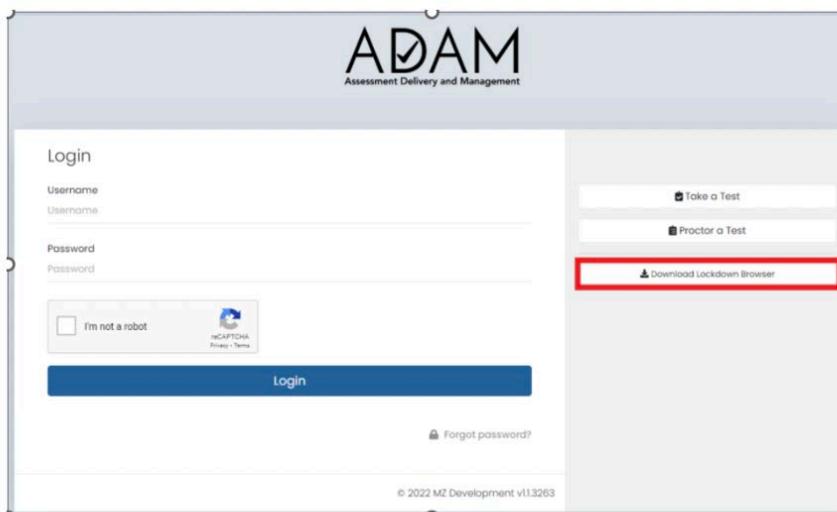
Instructions Overview

- Download the newest version of the ADAM Lockdown Browser to each student device that will be used for the test.
- Install it according to operating system practices.
- No account creation, settings configuration, or payment are necessary. No modifications to the code are permitted.
- On test day, have the students open the ADAM Lockdown Browser to take the test.



1. Navigate to <https://adexam.com/>

2. Select "Download Lockdown Browser"



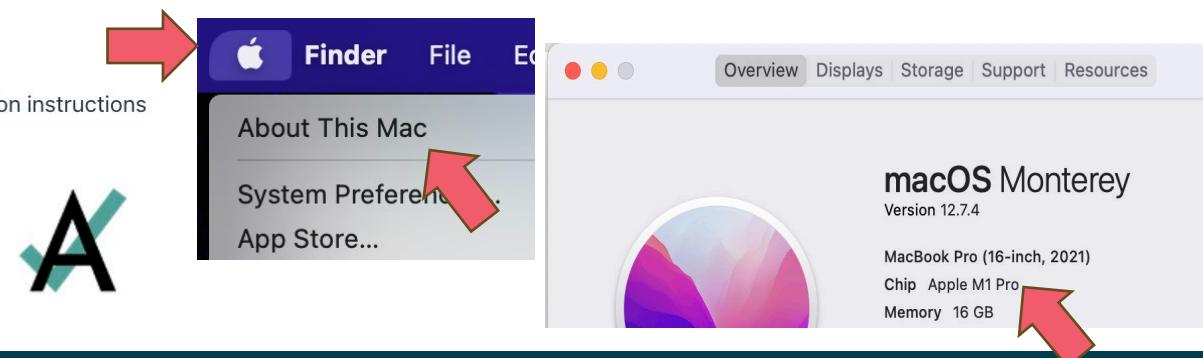
- 3.
- Select the "Mac Install (.dmg)" button if you are using a Mac.
 - Select the "Windows Install (MSI)" button if you are using a Windows computer.

Wait for the install package to download to the device.

4. Once the download is complete, open the install package and follow the installation instructions provided on the screen.

- Choose **Mac – Silicon** for newer devices with **M1 or M2** processors/chips
- Choose **Mac – Intel** for older devices with Intel processors/chips

- 5.
- Once installation is complete, select the ADAM icon to launch the application.



Step 1 – How to Download and Install

Chromebook Installation Steps

1. Sign in to your Google Admin console to open the Admin console Home page.
2. Go to **Devices > Chrome**
3. Click **Apps & Extensions > Kiosks**
4. Leave the top organizational unit selected to apply the settings to all devices being managed through the console. Otherwise, select a "child organizational" unit.
5. Select the Add  button and choose "Add from Chrome Web Store."
6. In the Chrome Web Store, select the app called **ADAM Test Delivery**. If the app is not showing, as an administrator of managed Chromebooks, one can search for the Lockdown Browser app in the Chrome Store using the ADAM Test Delivery ID: **okfigdffapmhgfallhnfhnfplcemcclm**
7. After the installation is complete, the ADAM Lockdown Browser should be installed on all the associated machines.

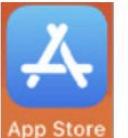
Students should not log in to the Chromebook. They should select the ADAM icon in the system tray.



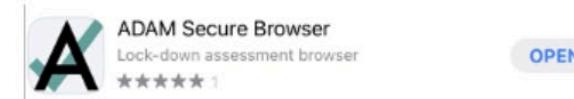
iOS Installation Steps

NOTE that the iOS installation is for iPad only.

1. Navigate to the Apple App Store on the device.



2. Search **ADAM Secure Browser** in the App Store, then download and open the app.



3. After the installation is complete, select the ADAM icon to launch the application.



In Response to Common Questions...

- We recommend installing the latest ADAM Lockdown Browser version each year prior to testing.
- The installation process will uninstall previous versions. No need to uninstall manually.
- The ADAM Lockdown Browser can only be used with Managed Chromebooks. Use with individual Chromebooks is not supported.
- **The ADAM Lockdown Browser must be used for administration of the Maine Science Assessment.** The NWEA assessments for Math and ELA have a separate, different custom browser application.
- Spring 2025 versions of the ADAM Lockdown Browser
 - Mac – v1.6.2 (Silicon and Intel)
 - Windows – v1.6.6 or v1.6.7 (release pending)
 - iPad – v1.0.4
 - Chromebook – v1.3.4

Operating System

- OS cannot be running in a virtualized environment
- macOS: version 12.7.6 – 15.1+
- Windows: Windows 10
- Chrome OS: latest three releases
- iOS: version 15.8.3 – 18.2+

Network Preparation

URL Whitelist

The ADAM online platform and the Lockdown Browser need to communicate with applications and services to perform correctly. To ensure things like a network firewall or other network appliances do not block those services, we require that the below list of URLs be whitelisted throughout your network. You can test to see if the network allows traffic to these sites by accessing each of the listed URLs. If you cannot get to the site, then contact your SAU/school's IT team.

- *adexam.com
- *earnosity.com
- *loggly.com
- *speechstream.net
- *sentry.io
- *s3.amazonaws.com
- *unpkg.com

Blocklisted Applications

To prevent the use of unauthorized software or communications applications during the assessment. The ADAM Lockdown Browser will automatically check for other programs running simultaneously and prevent the assessment session from starting if one of the blocklisted applications is detected. If detected, a notification will appear on the screen to close the other programs. Examples of blocklisted applications include web conferencing, video conferencing, instant messaging, VOIP calling, social media, screencasting, secondary displays, and other programs.

System Requirements

Network

- The student device must have access to the internet before the Lockdown Browser will initialize for student use.
- Assessment delivery devices can be networked via wired or wireless connections.
- ADAM is a lightweight browser-based application that is not bandwidth-intensive. There are no required bandwidth minimums. However, 5-10 MB per second per student is a general rule of thumb for online assessment.

Hardware

- Cumulative CPU speed is greater than 233MHz
- Total RAM available is greater than 256MB
- iPads must be 2nd generation or later
- At least 50 MB of free hard drive space is available. (Warning – does not stop you from continuing)

System Requirements - continued

Display

- Minimum resolution of 1024x768 (Warning – does not stop you from continuing)
- Minimum color depth 24-bit

Battery

- Device is recommended to be plugged into a power source. (Warning – does not stop you from continuing)
- Battery level should be at least 50% if the device is not plugged in. (Warning – does not stop you from continuing)

System Requirements - continued

Operating System

- OS cannot be running in a virtualized environment
- macOS: version 12.7.6 – 15.1+
- Windows: Windows 10
- Chrome OS: latest three releases
- iOS: version 15.8.3 – 18.2+

Permitted Peripherals (Not Required)

- External keyboard (wired or Bluetooth)
- Mouse/Trackpad (wired or Bluetooth)
- Headset
 - Headsets or earbuds for students using the Text-to-Speech (TTS) accessibility feature
 - Wired or Bluetooth
- Microphones (not needed for this assessment)

External Monitors

Assessment Coordinators, Technology Coordinator, Assessment Session Proctors, and other SAU personnel should be aware of the following Technology Configuration policies established by the Maine Department of Education for the Maine Science Assessment.

- The use of more than one monitor or other external screen connected to a test taking device is prohibited, including the active display of any content from the test taking device to multiple monitors, screen, or external devices in any configuration or location.
- ***To increase accessibility for students needing greater magnification of the computer-based assessment***, for laptop users, a single external monitor in the same testing location may be permitted, provided that the laptop screen is not displaying, and the connected monitor is the only active display of any content from the test taking device.
- The use of Picture In Picture (PIP) or Picture By Picture (PBP) displays are prohibited, including any configuration with the display of content from an external device displaying within a smaller display on the screen of the test taking device.

Assistive Devices

Screen Readers (ADAM supports common screen readers by operating system)

- VoiceOver for macOS and iOS
- JAWS for Chrome on Windows
- ChromeVox for Chromebooks

System Startup Checks

The ADAM Lockdown Browser automatically verifies the following system requirements. If a device fails one of these checks, a summary of the issue is displayed on the screen, and when possible, the user will have an opportunity to resolve it. For example, if the lockdown browser detects that a device has two monitors, an alert will provide instructions with an option for the user to unplug one monitor and then select “Retry” to rerun the checks. Similar notifications are provided if the device has a low battery level or is not plugged into a power outlet.

- Warning messages about hard drive space, screen resolution, and battery/power status may display when ADAM starts but do not prevent students from running the assessment.
- The student device must have access to the internet before the lockdown browser will initialize for student use.
- After the operating system check is complete, a final network check is needed based on how long it takes for the first page of the lockdown browser to load. If the initial page load exceeds the limit set, the system check will fail.

Microsoft Edge on Windows-Based Devices

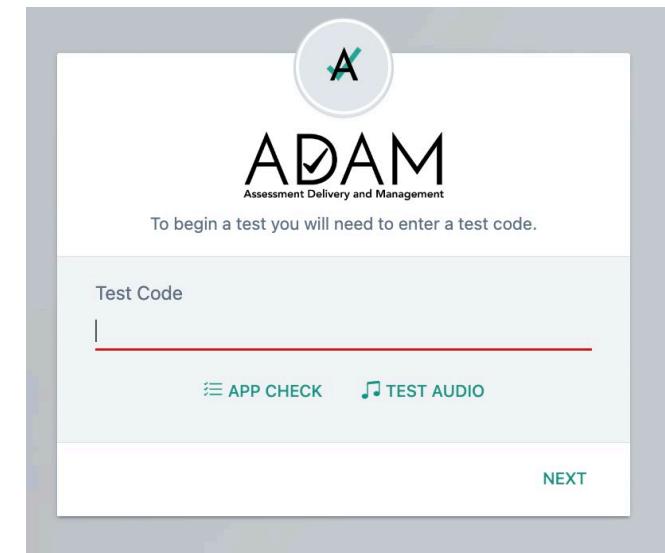
For Windows-based devices, it is recommended that prior to starting the assessment, school IT administrators disable the system setting that allows the Edge browser to "continue running background extensions and apps when Microsoft Edge is closed".

- 1. Ensure the device is running the latest version of Edge
- 2. Go to ... -> Settings -> System and performance
 - Disable "Startup boost"
 - Disable "Continue running background extensions and apps when Microsoft Edge is closed"

Step 2 -

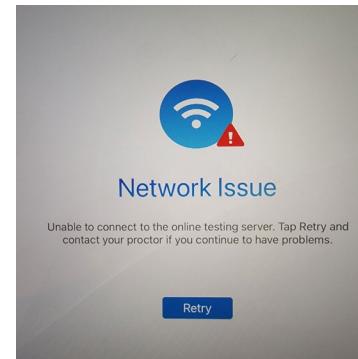
How to Use the ADAM Lockdown Browser

- Connect the student device to the Internet
- Quit all other applications and browser windows running on the test taking device
- Have students click on the ADAM icon on their device desktop, app list, or system tray
- When the Lockdown Browser launches, it will take over the full screen
- Follow directions on any alert messages that may appear during launch
- Once launched, students using Text to Speech can test their audio levels before starting the test
- Have students enter their State Student ID and test code to start the test as per the instructions and policies in the test administration manuals and proctor guides
- Have students close/exit the Lockdown Browser after the student has submitted each session of the test.



Warning messages when launching the Lockdown Browser

- Not connected to the Internet
- Slow network
- Other applications running in background
- Not enough battery power
- Too many monitors
- Insufficient memory
- Low resolution display
- Microsoft Edge issues



System Startup Checks

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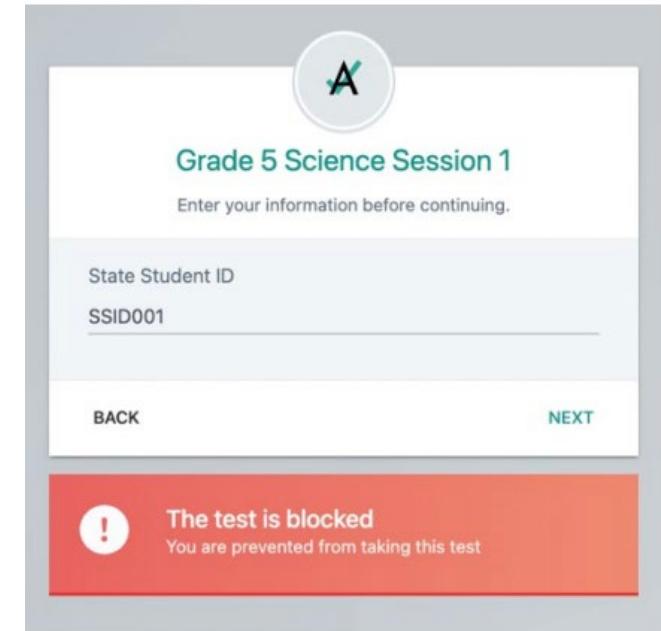
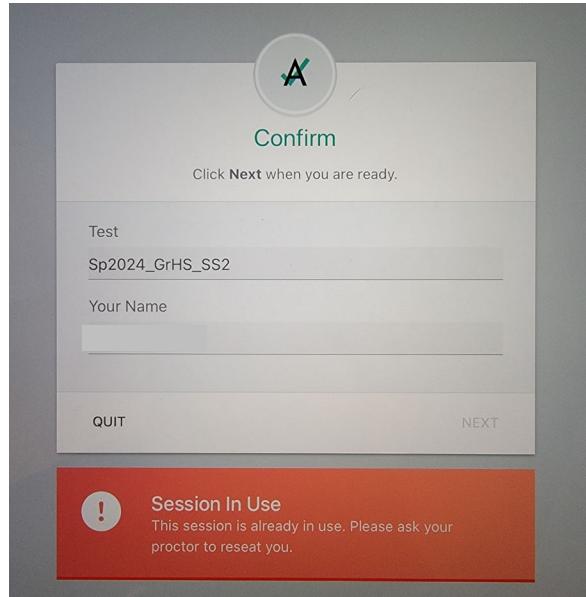
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Warning messages when launching the test

- Student not found
 - Re-enter SSID
 - Check student roster
- Test not found
 - Re-enter test code
 - Check code on test ticket
- Test is already in session
 - Reseat the student
- Test is blocked (paper-only students)
 - Administer the student's assigned paper test
- Session is already submitted
 - Student completed the test
 - Student accidentally submitted the test and needs to be unsubmitted (requires Maine DOE approval)
 - Student started but did not complete the test and was autosubmitted at end of day (requires Maine DOE approval to reopen test on a subsequent day)



Should a student receiving a paper-based accommodation attempt to login to the online platform the following alert message will appear on the screen: *The test is blocked, you are prevented from taking this test.*

During Testing: When the Lockdown Browser Requires Reseating

Scenarios:

- Time-out / Idle for too long
- Network disruption
- Student accidentally closed the test window
- System closed the test due to detection of unallowed program attempting to run at the same time

The screenshot shows the Maine Department of Education Lockdown Browser interface. At the top, there are three main sections: Testing Information, Config Information, and Actions. The Testing Information section shows the Test as "High School Science Session 2", Administration as "High School Science Session 2 - UAT Sp2024", Proctor Group as "Mrs. Carpenter Sp2024_GrHS_SS2", and Testing School as "DEMO Northview High School". The Config Information section shows the Test Window as "12/12/23 - 03/29/24", Proctor Name as "KA" (checked), and Kiosk Only as "Yes". The Actions section shows the Test Code as "T3556G" and the Proctor Password as "Print Cards". A large yellow box highlights the "RESEAT ALL" button in the Actions section. Below this is a table of student test sessions. The table columns include Tester, Identifier, Organization, Progress, Started Time, Health, Section, Item, TTS, Accom, Code, and Actions. The rows show student details: SID140 (Not Started, Not Started, Not Started, None, None), SID150 (Submitted, Dec 20th, 12:26:24 pm, Submitted, STUDENT ACTION OPTIONS), SID141 (In Progress, Mar 28th, 12:16:17 am, Active, 1 of 1, 1 of 18), SID138 (Submitted, Dec 27th, 4:26:05 am, Submitted, 100% Attempted, 1), and SID145 (Submitted, Dec 18th, 10:02:05 am, Submitted, 0% Attempted). A yellow box highlights the "Paper Only" button for SID140. Red arrows point to the "RESEAT ALL" button, the "RESEAT STUDENT" button in the Actions column for SID145, and the "Reseat Session" option in the Actions menu for SID145. The Actions menu also includes "Pause Session" and "Reseat Session".

During Testing: When the Lockdown Browser Requires Reseating

Scenarios:

- If reseating still doesn't allow the student to continue their test, it may have already been submitted.

Unsubmitting / reopening a test requires Maine DOE approval.

The screenshot shows the Maine Department of Education testing interface. At the top, a modal dialog box asks, "Are you sure you want to reseat this student's session?" with "Cancel" and "Reseat" buttons. A red arrow points to the "Reseat" button. The main page displays testing and config information, and a table of student records. A red arrow points to the "Reseated" status in the "Actions" column of a specific student record.

Testing Information

Test:	High School Science Session 2
Administration:	High School Science Session 2 – UAT Sp2024
Proctor Group:	Mrs. Carpenter Sp2024_GrHS_SS2
Testing School:	DEMO Northview High School

Config Information

Test Window:	12/12/23 – 03/29/24
Proctor Name:	<input checked="" type="checkbox"/> KA
Kiosk Only:	<input checked="" type="checkbox"/> Yes

Actions

Test Code:	Q47PAZ
Proctor Password:	T3556G
<input checked="" type="checkbox"/> Print Cards	

Student Record Table

Complete		In Progress	Not Started								
All	Not Started	In Progress	Submitted	Exited							
Search...											
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Auto Refresh (5 mins)	1 to 13 (13)	«	1	»							
Tester	Identifier	Organization	Progress	Started Time	Health	Section	Item	TTS	Accom	Code	Actions
SID141	DEMO Northview High School		Reseated	Mar 28th, 12:16:17 am	Active	1 of 1	1 of 18	<input type="checkbox"/>			<input type="checkbox"/>

SAU Science Assessment Administration Support

** Note the New
Meridian/MZD Help Desk
contact information
provided here is unique to
Maine Science.*

*Math and Reading
assessments have a
separate, different help
desk.*

Maine Department of Education Science Assessment Coordinator

Krista.Averill@maine.gov or 207-215-2568

- [Maine Science | Department of Education](#) – Resource Page
- Accommodations, irregularities, assessment content, policy, and student-related questions

MEDMS Support Team

MEDMS.Support@maine.gov or (207) 624-6896

- Questions regarding assessment rosters in [NEO](#)

New Meridian/MZD

Toll Free Number: 855-544-0842 or

Online Self-Service: <https://mescience.zendesk.com>

- Lockdown Browser (LDB) installation issues, LDB not working
- Log in credentials & Support
- Rostering information and support

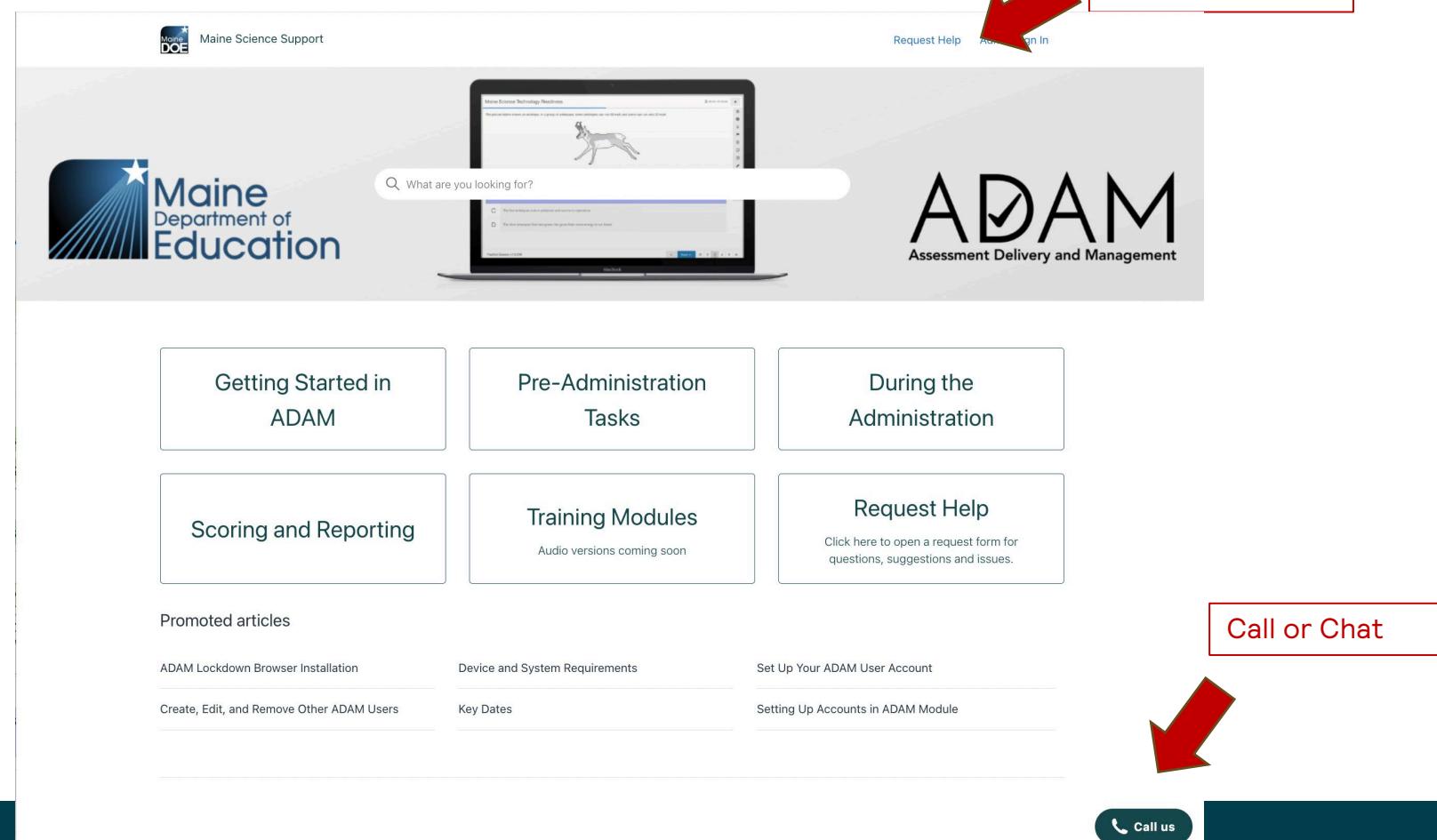
Assessment Administration Resources at the Maine Science Support Desk

Visit the Maine Science Support Desk for Up-to-Date Information

Toll Free Number: 855-544-0842 *or*

Online Self-Service: <https://mescience.zendesk.com>

Create a ticket



The screenshot shows the Maine Science Support Desk website. At the top, there's a navigation bar with the Maine Department of Education logo, a search bar, and links for 'Request Help' and 'Login'. A red arrow points to the 'Create a ticket' button. Below the navigation, there's a large image of a laptop displaying the ADAM (Assessment Delivery and Management) software interface. The ADAM logo is visible on the right. The main content area has several boxes: 'Getting Started in ADAM', 'Pre-Administration Tasks', 'During the Administration', 'Scoring and Reporting', 'Training Modules' (with a note 'Audio versions coming soon'), and 'Request Help' (with a note 'Click here to open a request form for questions, suggestions and issues'). A red arrow points to the 'Call or Chat' button at the bottom right. At the very bottom, there are links for 'Promoted articles' including 'ADAM Lockdown Browser Installation', 'Device and System Requirements', 'Set Up Your ADAM User Account', 'Create, Edit, and Remove Other ADAM Users', 'Key Dates', and 'Setting Up Accounts in ADAM Module'. A red arrow points to the 'Call us' button at the bottom right.

SAU
Science
Assessment
Administration
Support

Maine Department of Education

Science Assessment Coordinator

Krista.Averill@maine.gov

[Maine Science | Department of Education](#) – Resource Page

- Accommodations, irregularities, and policy questions

New Meridian/MZD

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New Meridian
Science Exchange

Thank you!