

Infrastructure Trial Readiness Guide for 2021 MCAS Computer-Based Testing

November 2020

Massachusetts Department of Elementary and Secondary Education 75 Pleasant Street, Malden, MA 02148-4906 Phone 781-338-3000 TTY: N.E.T. Relay 800-439-2370 www.doe.mass.edu



This document was prepared by the Massachusetts Department of Elementary and Secondary Education Jeffrey C. Riley Commissioner

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Important Contact Information and Resources

Contact:	MCAS Service Center
For questions on:	general test administration support
	 PearsonAccess^{next} and TestNav such as
	 user accounts
	 technology support and readiness
	 Infrastructure Trials and ProctorCache
	 viewing student records and organizations
	 the SR/PNP process and loading files
	 logistical support, including filling out the Materials Summary and the
	PCPA
	locating resources
	shipments of materials
Hours:	7:00 a.m.–5:00 p.m., Monday–Friday
Web:	mcas.pearsonsupport.com
Email:	mcas@cognia.org
Telephone:	800-737-5103
Fax:	603-516-1121

Contact:	ESE Office of Student Assessment Services
For questions on:	 policy, such as assigning accessibility features and accommodations student participation testing irregularities, including test security incidents and technology failures undoing test submissions for CBT student data and SIMS (See note below regarding SIMS.) Questions regarding SIMS data should be directed to the district's SIMS contact (go to profiles.doe.mass.edu/search/search.aspx?leftNavID=11239, select SIMS Contact from the Function menu, and click Get Results).
Hours:	8:00 a.m.–5:00 p.m., Monday–Friday during test administration windows Between 7:00 a.m. and 8:00 a.m. during the test administration windows, MCAS Service Center representatives will receive calls to 781-338-3625, answer questions regarding
	logistics, and take messages for Department staff, which will be returned during our regular business hours.
Web:	www.doe.mass.edu/mcas/admin.html
Email:	mcas@doe.mass.edu
Telephone:	781-338-3625
Fax:	781-338-3630

Contact:	Pearson Technology Support Specialists
For questions on:	Technology set-up and site readiness
	Questions about TestNav
	ProctorCache set-up
	 TestNav configurations in PearsonAccess^{next}
	 Error messages or questions on creating PearsonAccess^{next} sessions or
	TestNav configurations
	 Infrastructure Trials (set-up as well as debriefing)
Hours:	10:00 a.m.–5:30 p.m., Monday–Friday
Web:	http://mcas.pearsonsupport.com/technology-setup/
	Use the link above to schedule one-on-one support from Pearson's support
	specialists (i.e., Field Services Engineering). Technology coordinators may schedule
	a 15-, 30-, or 60-minute phone meeting with the Field Services Engineering team
	for "office hours" support.

Table of Contents

Important Contact Information and Resourcesi
I. Infrastructure Trial Overview1
II. Using the PearsonAccess ^{next} Training Site
III. Technology Set-Up
IV. Generating Sample Student Records 14
V. Administering Accommodated Practice Tests16
VI. Creating PearsonAccess ^{next} Sessions19
VII. Preparing and Administering the Infrastructure Trial
VIII. The Day of the Infrastructure Trial
IX. Steps for the Test Administrator to Administer the Infrastructure Trial Practice Tests 27
X. Monitoring the Infrastructure Trial 30
XI. Follow-up
Appendix A: Terms Related to Computer-Based Testing
Appendix B: ProctorCache Recommendation for 2021 MCAS Computer-Based Testing 37
Appendix C: Best Practices for MCAS Computer-Based Testing Set-Up, Administration, and Troubleshooting

I. Infrastructure Trial Overview

A. Purpose and General Overview

An Infrastructure Trial is an opportunity for districts, schools, and students to prepare for MCAS computer-based testing (CBT) by simulating test-day network utilization. This "dress rehearsal" will help to confirm that all testing devices are properly configured, that school and district networks can handle online testing, and that staff members are familiar with their role in administering an online test.

This trial is also an opportunity to introduce students to TestNav and practice using the online tools.

Conducting an Infrastructure Trial provides the school with a scheduled opportunity to practice administering a test in a low-stakes environment that can identify possible problems with technology and communication. This process will help avoid delays or issues during operational testing. Unlike during an operational administration, this trial will not use real student information (sample students will be created in the PearsonAccess^{next} training site), but many of the other steps for an operational administration will be followed.

The Infrastructure Trial confirms:

- TestNav is configured correctly
- If precaching, the ProctorCache machine is properly configured to deliver test content to devices
- Devices can successfully run TestNav
- Participating staff know how to monitor and manage a computer-based MCAS test
- Students are familiar with the computer-based tools and format

Note that students participating in the Infrastructure Trial practice test will not receive a score at the end of the session; if schools would like for students' practice tests to receive a score, schools should also administer the practice tests outside of the Infrastructure Trial. Scorable practice tests are available in the <u>MCAS Resource Center</u> and the TestNav Application login screen under the **Sign In** button as shown below.

TestNa	\mathbb{V}
Massachu	setts
Username	
Password	
Sign In	
 Test Audio Practice Tests 	3

B. Scheduling the Infrastructure Trial

If your organization has previously successfully administered school-wide CBT, and you are able to confirm the following five bulleted items, your organization may **not** need to conduct an Infrastructure Trial:

- TestNav is configured correctly
- If precaching, the ProctorCache machine is properly configured to deliver test content to devices
- Devices can successfully run TestNav
- Participating staff know how to monitor and manage a computer-based MCAS test
- Students are familiar with the computer-based tools and format

If one or more items in this list cannot be confirmed, or if your technology setup has significantly changed since the last CBT administration (including schools that will be using Bring Your Own Device for the first time), an Infrastructure Trial **is** recommended.

The Infrastructure Trial should take approximately 60 minutes to administer. However, additional time is needed for the following set-up tasks prior to administration: training staff, creating sample student records, creating sessions, and configuring the network. The time involved will vary depending on the size of the school and the number of students testing at a given time.

See the <u>testing schedule and administration deadlines</u> for the recommended windows for conducting an Infrastructure Trial.

C. Individuals to Include in the Infrastructure Trial

Everyone who will be involved in operational testing should be involved in the Infrastructure Trial. This may include the following:

- District test coordinator
- Principal or school test coordinator
- Test administrators
- Technology coordinator
- Students

Note: Due to reduced staff and students in schools, scaled-down versions of Infrastructure Trials are acceptable. These scaled-down versions should mimic as closely as possible the testing environments on test day.

D. Planning an Infrastructure Trial

Steps for the district test coordinator or principal/school test coordinator

1. Create a communication plan for the Infrastructure Trial.

A best practice is developing a communication plan for all of the staff members who have a role in administering computer-based tests.

Principals or test coordinators should establish communication with technology staff before the test schedule is set. The plan should document how to reach technology staff during operational testing as well as which individual (the technology coordinator or designee) will be designated to contact the MCAS Service Center in case of technology issues.

2. Schedule the Infrastructure Trial.

Schedule the following activities as part of the Infrastructure Trial:

- Consult with the technology coordinator, and confirm that all of the student testing devices meet the <u>technical specifications</u>.
- Designate appropriate testing locations (see guidance in the <u>Principal's Administration</u> <u>Manual</u>).
- Ensure technology staff have set up, installed, and configured all necessary software.
- Train all staff involved in the Infrastructure Trial.
- Identify all students who will participate in the Infrastructure Trial. A trial can be conducted with any number of students, but it is recommended that you include the maximum number of students you expect to be testing at the same time so that your trial approximates the anticipated load on your network.
- Have students practice TestNav navigation and tools by using the tutorial found at <u>mcas.pearsonsupport.com/student/</u>.
- Districts with a district test coordinator should inform their schools whether there will be a district schedule for administering the Infrastructure Trial.

II. Using the PearsonAccess^{next} Training Site

Steps for the district test coordinator, principal/school test coordinator, test administrators, and the technology coordinator

The <u>PearsonAccess^{next} (PAN) training site</u> is used for the Infrastructure Trial (instead of the operational site) to create sample students, create PAN Sessions, set up TestNav configurations, and monitor student test progress.

Schools should create accounts for test administrators, as well as any other necessary staff members, following instructions in the *Guide to Importing Users into PearsonAccess^{next}*, available online in <u>the</u> <u>MCAS Resource Center</u> under the User Information dropdown. New users who need access to multiple schools in a district, such as technology coordinators, should contact a district user for a PAN account. The MCAS Service Center can provide support if there are questions about adding new users.

Confirm that all staff members participating in the Infrastructure Trial have a user account for the training site and have been assigned their appropriate roles. To find a user in PearsonAccess^{next}, select **Users** from the **Setup** dropdown menu. Here, search by last name or select **Show All** (the button next to the **search** button). To see a user's assigned role, click on the **1** icon and select the **Roles** tab. Refer to the *User Role Matrix* and the *Guide to Managing Users in PearsonAccess^{next}* in the <u>MCAS Resource</u> <u>Center</u> for more information about creating users and assigning roles, if needed.

Note that users with accounts from last school year may have been disabled due to inactivity or because the accounts were created with an "Active End Date." Test coordinators should edit these accounts through the user interface or a file upload to restore access to PAN. Once this is completed, users should update their passwords.

To log in to the training site for the first time (if you received an email notifying you of a new PAN account):

- Click on the link in the email.
- Create a password. You will be prompted to enter it twice; then, click **Set Password**; and then, click **OK**.

- To return to the training site, go to https://trng-mcas.pearsonaccessnext.com/.
- Click **Sign In**, and enter your username and password on the next screen. Then select **Login**. Read the Privacy Policy and Terms and Conditions of Use, and then click **Accept**.

Note: The training site can be distinguished from the operational site by its brown banner at the top of most screens in PAN:

Training PearsonAccess^{next}

To log in to the training site for the first time (if you received an email notifying you of updated permissions to your PAN account):

- Go to https://trng-mcas.pearsonaccessnext.com/.
- Click **Sign In**, and on the next screen enter your username and password from the operational site. Then select **Login**.

To reset your password (if needed):

- Go to https://trng-mcas.pearsonaccessnext.com/.
- Click on the Forgot Password link.
- Enter your username and email address (typically these will be the same), and then click **Request Password Reset**.

Notes on logging in:

- If you reset your password to the training site, you will automatically reset your password for the operational site, since usernames and passwords for both sites will always match.
- Users have five opportunities to log in correctly. After five unsuccessful attempts, the account will be locked, and the user will need to click **Forgot Password** on the home screen to reset the account password.

III. Technology Set-Up

Steps for the technology coordinator before, during, and after the Infrastructure Trial

1. Review responsibilities for the Infrastructure Trial.

The technology coordinator and technology staff will need to review roles and responsibilities for preparing schools to conduct the Infrastructure Trial, and inform principals in the district. The technology coordinator and technology staff will need to determine local responsibilities, including configuring devices and how information will be shared across the team for preparing the school to conduct the Infrastructure Trial. Once these roles and responsibilities have been established, they need to be shared with the principal.

2. Configure Internet firewalls, content filters, and spam filters.

- Configure Internet firewalls, content filters, or spam filters to allow access to the Pearson domain. Verify content filter/firewalls and allow the appropriate sites, including:
 - *.testnav.com:80
 - *.testnav.com:443
 - *. pearsontestcontent.com
 - *. usertrust.com
 - *. comodoca.com
 - *. thawte.com

• *. google-analytics.com (recommended, but not required) Allow local file access to the home directory.

- Configure the common applications listed below so that they will **not** launch on any student testing devices during the Infrastructure Trial or during operational testing:
 - Anti-virus software performing automatic updates
 - Power management software on laptops warning of low battery levels
 - Screen savers and sleep mode
 - Email with auto message notification
 - o Calendar applications with notifications, such as Google Calendar
 - Pop-up blockers
 - Set automatic updates (iTunes)
 - o Windows Accelerator
 - Mac OS three finger tap gesture on Macintosh computers with trackpads
 - Any other application that could have a popup message

3. Download the device-specific TestNav app.

For desktop computers, laptops, iPads, Chromebooks, or Androids, download a device-specific TestNav application from the Apple Store, the Google Chrome Web Store, Google Play, or go to <u>http://mcas.pearsonsupport.com/technology-setup/</u>. Instructions on setting up and managing these devices are available at <u>https://support.assessment.pearson.com/x/HgACAQ</u>.

4. Test the "lock down" settings.

Student testing devices must be able to operate in a "lock down" state to temporarily disable features and applications that could present a security risk.

Schools can test the security lock down settings following these steps:

- For the TestNav app, open TestNav and navigate to the Massachusetts sign in page, and then click the user icon in the top right and choose "App Check" from the menu.
- A success message should display within a few seconds.
- If there is an error message, review the <u>device setup instructions for the TestNav app</u> or contact the MCAS Service Center.
- If the Configuration Identifier is entered, the App Check will also verify that the device has the appropriate permissions to the primary and, if specified, the secondary save locations. The identifier can be found in PAN on the Create/Edit TestNav Configuration page (Setup > TestNav Configurations > Create/Edit TestNav Configurations).

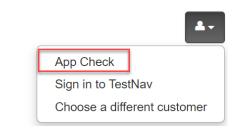
Note: ChromeOS devices: Peer-to-peer (P2P) networking should be disabled on ChromeOS devices. If it is available, devices can automatically update Chrome from nearby devices of the same model, resulting in an interruption in testing. Turn off this option in the Google Admin Console; it will help reduce errors and/or interruptions during testing. See Appendix B, section 1 (Technology Set-Up) for instructions on how to disable P2P networking on Chromebooks.

Note: ChromeOS devices should have accessibility features disabled prior to testing.

5. Run the Network Check in TestNav

Follow these instructions to test your network in TestNav and confirm if ProctorCache is needed.

In the TestNav app, click on the User dropdown and select App Check.



On the next screen, click Run Network Check.

Back to Sign in	App Check				
	Enter a configuration identifier or click "Run App Check" to run the default app check.				
	Configuration Identifier (optional):				
	Configuration Identifier				
	Run App Check Run Network Check				

On the following screen, you will be asked to enter a number of computers. This number should match as closely as possible the number of computers that will be used for testing on test day. Once a number has been entered, click **Start Diagnostics Test**.

Network Check		× Cancel
Estimate a school or test online testing.	t center's capacity to con	duct
Number of computers		
Start Diagnostics Test		

Following this test, you will receive a message informing you whether ProctorCache is recommended based on your network and number of computers entered.

If ProctorCache is not recommended, you will receive a message with a green **Pass** icon.

Enter a configuration identifier or click "Run App Check" to run the default app check.

Configuration Identifier (optional):

Confi	guration Identifier		
Ru	in App Check	Run Network Check	
Netw	ork Diagnosti	CS	
	Download Speed Test		10.66 Mbps
Test	Results Pass		
	ven the current load o is location.	on your system, you should l	be able to test at
	Proctor Cache is not r	ecommended	

If Proctor Cache is recommended, you will receive a message with an orange Warning icon.

Enter a configuration identifier or click "Run App Check" to run the

defa	ault app check.		
Cor	figuration Identifier (c	optional):	
Co	nfiguration Identifier		
ſ	Run App Check	Run Network Check	
Ne	twork Diagnosti	CS	
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Tes	st Results (Warnin	g	
	Given the current load this location.	on your system, you cannot suc	cessfully test a
	Proctor Cache is reco	mmended	

6. Review Appendix B: ProctorCache Recommendation for Winter/Spring 2021 MCAS Computer-Based Testing.

Follow the instructions to install, disable, or re-enable ProctorCache depending on the result of the Network Check.

7. Create the TestNav configuration.

The TestNav configuration enables you to set up Response File Backup Locations. If ProctorCache is used, the TestNav configuration will notify the student device where to access test content from the precaching machine once content becomes available. You may also change the default save location for encrypted backup files for TestNav in the TestNav configuration.

To create a TestNav configuration for your organization, select **TestNav Configurations** from the **Setup** menu on the PearsonAccess^{next} homepage, and select **Create/Edit Configurations** from the **Select Tasks** dropdown menu, and complete the following steps.

Training PearsonAccess ^{next}					Massacł	
A Home	🔅 Setup	⊠ Testing	neports 📰	∂ Support		
TestN	lav Co	onfigur	ations			
📰 Task	s 1 Sele	cted				
Select	t Tasks				-	Start 🝷
🗷 Cre	eate / Edit	TestNav C	onfigurations	6		
🗌 🗆 De	lete TestN	lav Configur	ations	-		
🗌 🗆 Im	port/Expor	t TestNav C	onfiguration	IS		
Configu	ration Nar	me starts w	ith		Q Search	-

a. Complete the "Details" fields.

- Enter a Configuration Name.
- If using ProctorCache, select the Precaching Computer Override option (recommended for most devices/configurations). If selected, this will allow students to continue testing, even if they lose connection to the ProctorCache computer. This may slow the loading time of the tests as the testing devices will no longer be getting content from a local device, but there will be no testing disruption.
- Select the school/organization that will use this configuration from the **Organizations** dropdown menu.

Tasks for Proctor Caching		O Add Task	¢ Previous Task	Next Task 🗲	Exit Tasks 🗙		
Create / Edit TestNav Configuration	ons						
		1					
CONFIGURATIONS (0)	DETAILS						
Create Configurations	New Cache Configuration	ו		Cre	eate Reset		
	Configuration Name*						
		I					
	Precaching Computer Override 6	I					
	Organizations*	I					
	Select						
	Default Precaching Compute						
	Computer Name*		ponse File Backı				
		Please use the following format for SFTP file backup location: sftp:// <userid>:</userid>					
	IP Address	<pre><pre>sword>@<address>:<port>/path</port></address></pre></pre>					
		Wind	ows, Primary Loca	ntion 🔁			
	Port	Use	default user director	у			
		Wind	ows, Secondary L	ocation			
	Note: Confirm that firewall or content filtering software is						
	open for both ports 4480 and 4481 of the proctor	MAC,	Primary Location	0			
	caching computer.	Use	default user director	у			
		MAC,	Secondary Locati	on 🔁			
		Andr	oid, ChromeOS, ar	nd iOS Seconda	ry Location 🖲		
			, Primary Location				
			default user director				
		Linux	k, Secondary Loca	tion 🖲			

- b. If using ProctorCache, complete the "Default Precaching Computer" fields.
 - Enter a **Computer Name** for the precaching machine.
 - Enter an internal network **IP Address** of the precaching machine.
 - Enter the **Port** number for the precaching machine, which will be 4480 for Pearson supplied ProctorCache software. If you will be using a non-Pearson supplied caching solution, uncheck the box next to "Uses Pearson Precaching Software" and then use the correct port for the non-Pearson software.

Tasks for Proctor Caching		O Add Task	Previous Task	Next Task 🔉	Exit Tasks 🗙
Create / Edit TestNav Configurati	ons				
CONFIGURATIONS (0)	DETAILS				
	New Cache Configuration	on		Cre	Reset
	Configuration Name*				
	Precaching Computer Override	I			
	Organizations* Select				
	Default Precaching Comput	_	ponse File Backı	up Locations –	
	Computer Name*	Ple	ase use the following kup location: sftp:// </th <th>format for SFTP</th> <th>file</th>	format for SFTP	file
	IP Address		ssword>@ <address< th=""><th></th><th></th></address<>		
	Port		ows, Primary Loca default user director		
	Note: Confirm that firewall or	Wind	ows, Secondary Lo	ocation	
	content filtering software is open for both ports 4480	MAC,	Primary Location	0	
	and 4481 of the proctor caching computer.	Use	default user director	у	
		MAC,	Secondary Locati	on 🤁	
		Andr	oid, ChromeOS, an	nd iOS Seconda	ry Location 🖲
		Linux	s, Primary Location	1 D	
			default user director		
		Linux	, Secondary Loca	tion 🔁	

c. Complete the "Response File Backup Locations" fields.

Note: Whether or not you are using ProctorCache, if you do not already have a Secondary save location set up, you will need to enter a Configuration Name, Organization, and Computer Name for the locations to save student response files.

- For the primary location, leave this field blank so the default remains the device the student is using to test. The Department recommends that a secondary save location also be designated on an internal network location.
- Enter the **Secondary** save locations for the students' response files, which will be encrypted. There are options for Windows, Mac, and Linux devices, and there is an option to use an SFTP file backup location for mobile devices.

Tasks for Proctor Caching		O Add Task	Previous Task	Next Task 🕽	Exit Tasks 🛪
Create / Edit TestNav Configuratio	ons				
CONFIGURATIONS (0)	DETAILS				
O Create Configurations	New Cache Configuration	on		Cre	Reset
	Configuration Name*				
	Precaching Computer Override Organizations ⁶	•			
	Organizations* Select				
	Default Precaching Compu	ter			
	Computer Name*	Res	ponse File Backı	up Locations	
	IP Address	bac	ase use the following kup location: sttp:/// ssword>@ <address< th=""><th>userid>:</th><th>file</th></address<>	userid>:	file
		Wind	ows, Primary Loca	tion O	
	Port		default user director		
		Wind	ows, Secondary L	ocation ()	
	Note: Confirm that finewall or content filtering software is open for both ports 4480	MAC,	Primary Location	Ð	
	and 4481 of the proctor caching computer.	Use	default user director	y.	
		MAC,	Secondary Locati	on O	
		Andre	oid, ChromeOS, an	nd iOS Seconda	ny Location 🛛
		Linux	, Primary Location	n 0	
		Use	default user director	У	
		Linux	, Secondary Loca	tion	

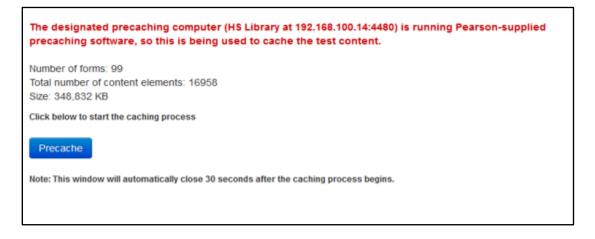
- d. Click "Create" to complete the configuration.
- 8. If using ProctorCache, precache test content by using the "Precache by Test" function.
 - a. Select "Precache by Test" from the "Setup" dropdown menu.

Training F	PearsonAcces	ss ^{next}	
Home S	🌣 🗹 Tetup Testing	■ Reports	₽ Support
	-		
	SET	UP	
	2		
	Select an act	ion 🔻	
	Import / Export	Data	
\star Progra	Students		
Weld	Organizations		next.
Use th	Users		
•	TestNav Configu		
:	Precache By Te vianage user au		ipation, and enrollment

b. Select the test(s) to cache and the "Precache Server," and then click "Precache."

Grade 3 Math Grade 4 ELA Grade 4 ELA Grade 5 ELA Grade 5 Science Grade 5 Science Grade 6 ELA Grade 6 ELA Grade 7 ELA Grade 7 ELA Grade 8 Math	Organization	Test (Select up to 10)	Precache Servers (Select one)	
 Grade 4 ELA Grade 4 Math Grade 5 ELA Grade 5 Math Grade 5 Science Grade 6 ELA Grade 6 ELA Grade 7 ELA Grade 7 TELA Grade 8 ELA Grade 8 ELA Grade 8 Math 	SAMPLE SCHOOL (11111111)	Grade 3 ELA	Sample Computer 0	Precache
 Grade 4 Math Grade 5 ELA Grade 5 Science Grade 5 Science Grade 6 ELA Grade 7 TLA Grade 7 TLA Grade 8 ELA Grade 8 ELA Grade 8 ELA Grade 8 Math 		Grade 3 Math		
 Grade 5 ELA Grade 5 Math Grade 5 Science Grade 6 ELA Grade 6 Math Grade 7 ELA Grade 7 Math Grade 8 ELA Grade 8 Math 		Grade 4 ELA		
 Grade 5 Math Grade 5 Science Grade 6 ELA Grade 6 Math Grade 7 ELA Grade 7 Math Grade 8 ELA Grade 8 Math 		Grade 4 Math		
 Grade 5 Science Grade 6 ELA Grade 6 Math Grade 7 ELA Grade 7 Math Grade 8 ELA Grade 8 Math 		Grade 5 ELA		
 Grade 6 ELA Grade 6 Math Grade 7 ELA Grade 7 Math Grade 8 ELA Grade 8 Math 		Grade 5 Math		
 Grade 6 Math Grade 7 ELA Grade 7 Math Grade 8 ELA Grade 8 Math 		Grade 5 Science		
 Grade 7 ELA Grade 7 Math Grade 8 ELA Grade 8 Math 		Grade 6 ELA		
Grade 7 Math Grade 8 ELA Grade 8 Math Grade 8 Math		Grade 6 Math		
Grade 8 ELA Grade 8 Math		Grade 7 ELA		
Grade 8 Math		Grade 7 Math		
		Grade 8 ELA		
Grade 8 Science		Grade 8 Math		
		Grade 8 Science		

c. Click "Precache" in the pop-up message confirming the precaching computer.



d. A new window will open the ProctorCache diagnostic screen showing the precaching status. You may need to enable pop-ups in your browser for PearsonAccess^{next} to see this screen.

т	ESTNA 🗸 Proctor(Cache		Tes	sts Clie	ents 🛛 H
Т	ests 🛛 🕫 Refresh	Reload × Purge	Test		search	Clear
	TEST +	FORM +	STATUS +	ENTRIES +	CACHE DATE	
	Grade 4 ELA/Literacy	Grade 4 ELA/Literacy - 16ELD4PT0E01010300	•ок	27	Jan 15, 2016	11:03 AM
	Grade 4 ELA/Literacy	Grade 4 ELA/Literacy - 16ELD4PT0E01010100	•ок	26	Jan 15, 2016	11:03 AM
	Grade 4 ELA/Literacy	Grade 4 ELA/Literacy 16ELD4PTAE01010300	•ок	42	Jan 15, 2016	11:03 AM
2	Grade 4 ELA/Literacy	Grade 4 ELA/Literacy - 16ELD4PTAE01010100	ок	12	Jan 15, 2016	11:03 AM
	Grade 4 ELA/Literacy	Grade 4 ELA/Literacy - 16ELD4PT0E01010200	өок	32	Jan 15, 2016	11:03 AM
83	Grade 4 ELA/Literacy	Grade 4 ELA/Literacy - 16EL04PTAE01010200	ок	89	Jan 15, 2016	11:03 AM

9. Perform a "Preliminary System Test" (recommended).

Prior to students taking part in the Infrastructure Trial, the technology coordinator should perform a Preliminary System Test. The Preliminary System Test is an informal, small-scale Infrastructure Trial to help ensure systems are set up and in place before students participate. Technology coordinators should work with the principal or school test coordinator to follow the steps to create sample student records and a PAN Session. Then, technology staff should log in to several student devices and access a practice test to confirm that the devices are able to use TestNav.

10. Perform the following steps during the Infrastructure Trial.

a. If applicable, ensure ProctorCache software is running.

Locate the caching computer's IP address and, then in your browser, type http://<IP address>:4480 and then press Enter to view the ProctorCache interface. View three tabs: Tests, Clients, and Help. Select the Tests tab for information about test content and caching status. Select the Clients tab to monitor client connectivity.

b. Monitor network performance for slowdowns or ISP bandwidth usage.

- If testing devices are using a wireless connection, monitor the connections and verify that access point placement is sufficient for online testing
- Provide technology support as needed to the principal or school test coordinator and to test administrators.

11. Perform the following steps after the Infrastructure Trial.

a. If you used ProctorCache, purge cached test content (recommended).

Note that if content is not purged, it will show in the caching interface in the next CBT administration.

In your browser, type http://<IP address>:4480 and press Enter to view the ProctorCache interface. Choose the Tests tab to select the content to purge. A password is required to purge; the default password is t35t1n6.

т	ESTNA 🗸 🗄	ProctorCache				Tests	Clients	🕑 Help
Τe	ests	¢ Refresh	¥ Purge		st	• search	Clear	
	TEST	+ FORM	÷	STATUS	+ ENTRIES +	CACHE DATE		÷
	Grade 4 ELA Test	Grade 4 ELA Test - E17NSR0	4ELA01	●ок	47	Mar 30, 2017	1:27 PM	
	Grade 4 ELA Test	Grade 4 ELA Test - E17SR04	ELA01	●ок	44	Mar 30, 2017	1:26 PM	

b. Follow up on any issues that were identified.

Following the Infrastructure Trial, there may be a need for technical follow-up and resolution prior to the operational test administration. Feedback from staff and students regarding TestNav performance, device connectivity, network performance, and access point placement should be used to conduct follow-up activities with the Infrastructure Trial team.

IV. Generating Sample Student Records

Steps for the district test coordinator or principal/school test coordinator

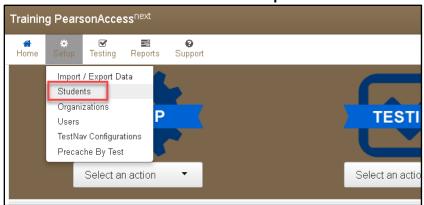
The Department recommends using sample student records instead of actual student data. Schools should determine the maximum number of expected concurrent testers during operational testing (e.g., 300 students testing on one day at 10:00 a.m.) in order to conduct their Infrastructure Trial with the same number of concurrent testers. The principal or test coordinator will then need to create sample student records in the training site, creating as many sample records as the number of students expected to participate in the Infrastructure Trial, as well as a 10 percent overage in case of login complications.

Note: The ability to generate sample student records exists only on the PearsonAccess^{next} training site (this cannot be done in the operational site).

To create sample student records:

1. Log in to the MCAS training site.

Confirm that the correct administration is selected in the top right hand corner of PearsonAccess^{next}.



2. Click "Setup," and then select "Students" from the dropdown menu.

3. Select "Generate Sample Students" from the "Select Tasks" dropdown menu, and then click "Start."

Trainin	g Pears	onAcce	ss ^{next}					Massad
A Home	¢ Setup	⊠ Testing	E Reports	Operation of the second sec				
Stude	ents							
📰 Task	s 1 Sele	cted						
Select	Tasks					•	Start	-
Cr	eate / Edit	Students						
Re	gistration Enroll Stu	dents	oring 20	017 MCAS	Gr. 3–8 🝷			
	Register S	Students				🕽 Search 🕞		
	Manage S	Student Tes	ts					
🗌 De	lete Stude	nts	ear Hide	e No	Results			
🕑 Ge	enerate Sa	mple Stude	nts					
SASID					SA SID*	First N	ame*	

- 4. Populate the following fields in the "Generate Sample Students" screen, and then click "Generate."
 - **Organization**: Select your school/organization.
 - **Group**: Select **Create New Group**, and enter a group name that is easy to find (e.g., grade, subject, and location). This will be used later to add students to a PearsonAccess^{next} Session (see Section VI on pages 19–23).

Note: Creating groups is only available in the training site to facilitate adding sample students to test sessions. Student groups should not be used for operational testing.

- **Student Grade**: Select the grade in which the students are reported in SIMS.
- **Test**: Select the appropriate subject area test from the dropdown menu.
- Test Format: Select Online.
- Number of Students: Enter the number of students, up to a maximum of 99. It is recommended that you create at least 10 percent more students than needed, in case additional student testing tickets are needed.

Training PearsonAccess ^{next}
Tasks for Students
Generate Sample Students
Generate Sample Students
Organization*
Select
Use Existing Group
New Group Name
Student Grade*
•
Test*
Select
Test Format*

Number of Students*
Between 1 and 99
* Required
Generate Reset

Repeat steps 2–4 for each grade/subject for each group of sample students to be created.

V. Administering Accommodated Practice Tests

Steps for the district test coordinator or principal/school test coordinator

Most, but not all, accommodations and accessibility features are available for the practice tests administered as part of the Infrastructure Trial. It is recommended to test third party software and hardware prior to live testing to ensure compatibility with the app.

The following SR/PNP-enabled accessibility features are available for practice tests in the Infrastructure Trial:

- Alternative Background and Font Color: The Alternative Background and Font Color is available for all of the grades 3–8 and 10 practice tests. The grade 10 practice tests will be used during Infrastructure Trials for the special January high school administration.
- Answer Masking: Answer Masking is available for all of the practice tests (listed above).

The following accommodations are available for practice tests in the Infrastructure Trial. Where noted by an asterisk, practice test editions are only accessed in the Infrastructure Trial and not via the app or in the MCAS Resource Center.

- Text-to-Speech: Text-to-Speech is available for all of the practice tests.
- **Compatible Assistive Technology***: The Compatible Assistive Technology accommodated test Form is available only for the grade 3 ELA practice test; it is meant to be a sample for school staff to ensure that students' external AT software/hardware function as expected with TestNav

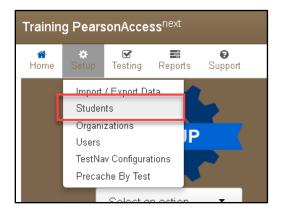
prior to operational testing.

- Screen Reader*: The Screen Reader accommodation is available only for the grade 3 Mathematics practice test; it is meant to be a sample for school staff to ensure that students' external Screen Readers (e.g., JAWS) function as expected with TestNav prior to operational testing.
- Human Reader/Human Signer: These accommodations involve assigning a proctor testing ticket, so the students *must* be placed in a separate PearsonAccess^{next} Session marked as a Human Reader/Human Signer session. No responses should be entered into the test using a Proctor Testing Ticket, as the responses will not be saved. (Students will log in and respond using their student testing tickets.) More information on this can be found in the <u>Guide to the Student Registration/Personal Needs Profile (SR/PNP) Process</u>. These accommodations are available for all of the practice tests (listed above).
- **Spell-Checker**: The Spell-Checker accommodation is available for all grades 3–8 and 10 ELA practice tests. The grade 10 practice tests will be used during Infrastructure Trials for the special January high school administration.

For more information about accessibility features and accommodations, refer to the <u>Guide to the</u> <u>SR/PNP Process</u>. For information about assistive technology, refer to the <u>Guidelines for Using Assistive</u> <u>Technology as an MCAS Test Accommodation</u>.

These accessibility features and accommodations, including accommodated test forms, **must be assigned prior to preparing and starting a PearsonAccess**^{next} **Session**. Use the following steps to assign accessibility features and accommodations.

1. Click "Setup," and then select "Students" from the dropdown menu.



2. Select the student whose test will be assigned an accommodation, and select "Manage Student Tests" from the "Select Tasks" dropdown menu.

Training PearsonAccess ⁿ	ext				Massachu
	eports Suppo	rt			
Students					
🖺 Tasks 1 Selected					🔳 S
Select Tasks			-	Start 🝷	Ма
 Create / Edit Students Registration Register Students Manage Student Tests Manage Enrollments Delete Students 	pring 2017 MC	AS Gr. 3-8 -	Q Search	3	
Generate Sample Students	Clear Hide	171 Results			
SASID		SASID*		First Name*	Mid
Starts with			388 🚯	AAA	
UUID		9453681		AAA	
Starts with		9453681	398 🚯	ААА	

3. Select the subject area test on the left-hand side of the screen, and select the appropriate accessibility features and/or accommodations.

Tasks for Students		O Add Task	Previous Task Next Task Exit Tasks X
Manage Student Tests			
Test Filter Add STUDENT TESTS (2) © Create Student Tests	Filter by Test Status Complete Assigned Apply TEST DETAILS New Student Test		Create
AAA, AAA (9450601500) Grade 5 ELA Assigned AAA, AAA (9453661333) Grade 5 ELA Assigned	•	Fest Select Group Name Select	
	Test Format* Add Special Test Forms Text-to-Speech Carge Print Test Edition Carge Print Test Edition Carge Print Test Edition Carge Print Test Edition Carge Reader Edition Carge Reader Edition Carge Reader Edition Carge Reader Edition Carge With hard-copy Braille test. Assistive Technology See list of compatible software.	Selected Accommodations Human Read-Aloud or Human Signer @ Human Scribe or Speech-to-Text @ Typed Responses (paper-based only) @ Calculation Device provided by school on non- calculator Mathematics test session © Spell-Checker @ Word Prediction software (provided by school) @ Any other accommodation not included elsewhere on this list @	

4. Recommended: Revise the sample student name so that the accommodated test is easier to find. Select the "Add Task" button on the top black bar, and then select "Create/Edit

Student" and select the student record on the left to update the name and click "Save."

Tasks for Students					O Add Task	Previous Task	Next Task >	Exit Tasks 🗙
Create / Edit Students	Manage Student Tests							
STUDENTS (1)		DETAILS						
Create Students		STUDENT, NEW (188	5975371)				S	ave Reset
STUDENT, NEW (188597	>	Organization* * DESE TEST MIDDLE (00000003)					🕑 Sho	w Student Details
		Updates to student information	on must also be made in S	IMS. Contact your distric	t SIMS coor	dinator to report a	iny changes.	
		First Name*		SASID* 1885975371				
		Middle Initial	-	Date of Birth*				
				2005-03-13	**			
		Last Name*		Gender				
		STUDENT		M - Male	Ŧ			
		* Required						
		Save						

VI. Creating PearsonAccess^{next} Sessions

Steps for the district test coordinator or principal/school test coordinator

After sample student records have been created, the district test coordinator, principal or school test coordinator will need to create online PearsonAccess^{next} Sessions for the sample student practice tests, which are grade- and subject-specific. A PearsonAccess^{next} Session is an electronic grouping of students in PearsonAccess^{next} who will be testing at the same time and place. (This is different from subject test sessions, which is a term used for administration.)

Recommendations for creating PearsonAccess^{next} Sessions:

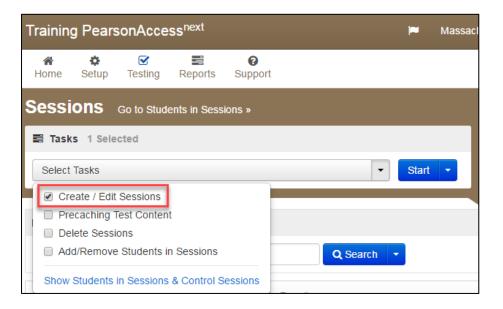
- Create a unique PearsonAccess^{next} Session for each group that will be testing.
- Include the subject, testing location, and the name of the test administrator in the name of the PearsonAccess^{next} Session.

1. Create PearsonAccess^{next} Sessions.

a. Click "Testing," and then select "Sessions" from the dropdown menu.



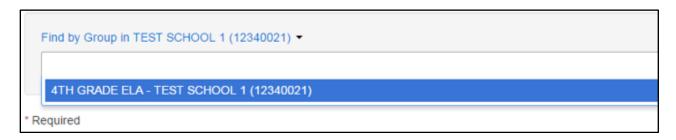
b. Click "Select Tasks," select "Create/Edit Sessions," and then click the blue "Start" button.



- c. Complete the "Details" screen.
 - Enter the Session Name, and then select the Organization from the dropdown menu.
 - Complete the **Test & Form** section by selecting the **Test Assigned** dropdown menu and choosing the appropriate practice test from the dropdown.
 - Set Form Group Type to Standard from the Form Group Type dropdown.
 - If using ProctorCache, select the Precaching Computer from the dropdown menu.
 - Enter the **Scheduled Start Date** and the **Scheduled Start Time**. (These are meant to be used for planning purposes only; entering incorrect information will not have an effect on when the practice tests can actually be administered.)
 - Click in the box underneath "Students" to add individual students or click on the dropdown arrow next to the school code to instead find by group name created in section IV above (as shown in the following step).

Add	w.	
A pre-caching compute	r is required when there is one or more avai	lable
Find by Name or ID	-	
Students		
Add students to se	ssion	
Add students to se	ssion	
Add students to se	ssion	

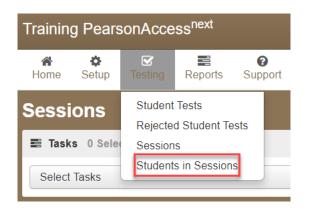
d. When selecting the option to find groups, the screen changes as shown below:



- e. Click "Create."
- 2. How to add additional sample student records to a PearsonAccess^{next} Session that has already been created (if necessary):

Follow the steps below to add student records to PearsonAccess^{next} Sessions, if the students were not included in the Session when it was created.

a. Click "Testing," and then select "Students in Sessions" from the dropdown menu.



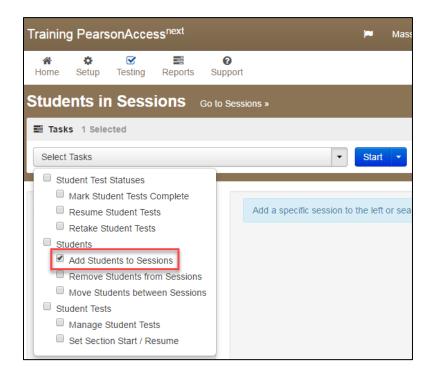
b. Select "Add a Session," and search for the name of the Session to which you will add students.

Students in	Sessions Go to Sessions »
Tasks 0 Selec	sted
Select Tasks	▼ Start ▼
Session List	Add a specific session to the left or sear T Filter > grade 2 Items of 2 GRADE 8 ELA ROOM 106 GRADE 8 MATH ROOM 103

c. Select the checkbox next to the name of the Session, and then click "Add Selected."

Students in	Sessions	Go to Ses	sions »				
📰 Tasks 0 Selec	ted						
Select Tasks					•	Start	-
Session List			Add a s	pecific	session to	the left or	searc
Add a Session			▼ Filter	>			
	grade						
	2 items of 2						
		A ROOM 106	;	*			
	GRADE 8 MA	TH ROOM 1	03				
Find Students							
	-			Sea	arch 🝷		
Filters Organization							
Select one or mor				-	Last Na	me	F
SASID	Add Selected			et a	a filter to vi	iew results.	

d. Click on the "Tasks" menu, and select "Add Students to Sessions." Then click "Start."



e. In the "Find Available Students" box, find students to add to the Session.

Search for students by last name or select the "Show all Results" checkbox to see all available students. To add students from a previously created group, select the blue dropdown and select the "by Group" option.

Task	s for Students in Sessions	Add Task <pre> Add Task <pre></pre></pre>	
Add	Students to Sessions		
Add	d Students to Sessions		Add Reset
Sessio	on	Find available students within KENNY SCHOOL -	
GRA	ADE 8 ELA ROOM 106 (GRADE 8 🔹	Last Name starts with	Q Search 👻
2.5			Show all results
10 av	vailable student(s) found		This action clears the search and filters
	Student	Organization	
	STUDENT, NEW (6199298213) 3	SAMPLE SCHOOL (1111111)	
	STUDENT, NEW (7609044198) 3	SAMPLE SCHOOL (1111111)	
	STUDENT, NEW (9581898619) 🕄	SAMPLE SCHOOL (1111111)	
	STUDENT, NEW (3085735310) 3	SAMPLE SCHOOL (11111111)	
8	STUDENT, NEW (2972280454) 3	SAMPLE SCHOOL (11111111)	
	STUDENT, NEW (3698023779) 3	SAMPLE SCHOOL (1111111)	
	STUDENT, NEW (6326282123) 🕄	SAMPLE SCHOOL (1111111)	
0	STUDENT, NEW (9671487955) (3	SAMPLE SCHOOL (11111111)	

f. Select the student(s) to be added and click the "Add" button.

VII. Preparing and Administering the Infrastructure Trial

Steps for the district test coordinator or principal/school test coordinator

1. Prepare each PAN Session.

PAN Sessions must be prepared by the principal or school test coordinator before they can be started. Preparing a PAN Session assigns the test form for the students, so it is important to make sure PNP information has been updated so sample students can be assigned an accommodated form as necessary. Preparing a PAN Session may take a few minutes depending on the number of students in the Session; preparing multiple PAN Sessions may take a longer time. It is recommended to prepare Sessions the day before planned testing to ensure that all forms are assigned correctly.

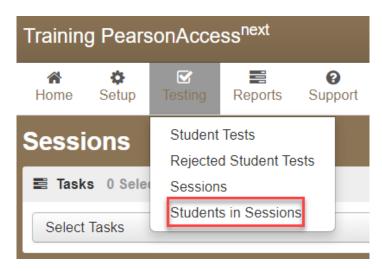
- a. Go to the "Testing" tab and click "Students in Sessions."
- b. Locate and click the session name from the Session List.
 The Sessions Details screen will appear for the PAN Session selected. If multiple PAN Sessions are selected, the option to Combine View and Prepare all Sessions appears.
- c. Click the blue "Prepare Session" or "Prepare All Sessions" button.

Students in Sessions Go to	Sessions »		
Tasks 0 Selected		Students in Sessions 0 Selected Clear	
Select Tasks	▼ Start ▼	Manage	•
Session List Add a Session GRADE 8 ELA ROOM 106 * 1 Sessions Clear	GRADE 8 ELA ROOM 106 ☐ Ignore Schedule A Resources -	tails 🖌 Edit Prepare Session 💭 📿 Refr	esh

2. Print student testing tickets.

Student testing tickets include a login ID and password to log in to the practice tests, and are generated for each student added to a PAN Session.

a. Once logged in to the training site, click "Testing," and then select "Students in Sessions" from the dropdown menu.



b. Select "Add a Session," and then search for the PearsonAccess^{next} Session.

Students in	Sessions	Go to S	essions »			
🖺 Tasks 0 Selec	ted					
Select Tasks					•	Start 🝷
Session List			Add a s	pecific ses	sion to	the left or sear
Add a Session			T Filte	er >		
	grade					
	2 items of 2					
	GRADE 8 ELA	A ROOM 1	06	*		
	GRADE 8 MA	TH ROOM	1 103	_		

- c. Select the checkbox next to the Session name, and click "Add Selected."
- **d.** To print student testing tickets, click on the "Resources" dropdown. There will be options to print tickets for all students or selected students.

Students in Sessions	Go to S	essions »
Tasks 0 Selected		
Select Tasks		 ▼ Start
Session List		GRADE 8 ELA ROOM 106
GRADE 8 ELA ROOM 106	×	Scheduled Sessions STUDENT TESTING TICKETS
1 Sessions Clear		Print all for this session Print selected for this session

- 3. The principal/school test coordinator or test administrators should verify the following with technology staff:
 - All devices to be used for testing are charged.
 - Sufficient power cords and power strips are available.

• Accessories, such as external keyboards for tablets and headphones for students using the text-to-speech edition, are available and in working order prior to testing.

VIII. The Day of the Infrastructure Trial

Steps for the district test coordinator or principal/school test coordinator

- 1. Start the PAN Session.
 - a. Click "Testing", and then select "Students in Sessions" from the dropdown menu. (See a screen shot on page 24.)
 - In the "Session List", click on the names of the Sessions to start.
 The Session Details screen will then appear for the selected Session(s). (If two or more Sessions were selected, options to Combine View and Start All Sessions will appear.)
 - c. On the "Session Details" screen, click on the green "Start Session" (or "Start All Sessions" button). After clicking this button, it will change to a Stop Session button.

Session List Add a Session		TRAINING SESSION							
O Combined View		Ready	Start Session 😂 Refresh						
TRANING SESSION	ж		Start Session						
TRAINING SESSION 1	×								
2 Sessions Clear									

- 2. Prepare testing devices: Launch the TestNav app on all testing devices.
- 3. Distribute student testing tickets and proctor testing tickets if applicable: Ensure that test administrators have the student testing tickets for all students assigned to them, and proctor testing tickets for the Human Reader or Human Signer accommodations. Make sure you do not hand out proctor testing tickets to students since responses are **NOT** saved in a test accessed with a proctor testing ticket.
- 4. Direct test administrators and students to testing locations: Direct test administrators and students to their assigned computer lab or other testing location.,
- 5. Conduct the test sessions: Test administrators will unlock the Sessions and have the students log in to TestNav. This marks the beginning of the test session. The following section contains steps for test administrators during the Infrastructure Trial session.
- **6. Oversee test administration**: During each test session, principals or school test coordinators should monitor the administration to ensure that testing is being completed as expected.
- Complete testing: Students will complete two sessions for Mathematics (one noncalculator session and one calculator-allowed session) and one test session for ELA. Note: Students will see additional sessions for ELA, which can be ignored.

IX. Steps for the Test Administrator to Administer the Infrastructure Trial Practice Tests

A. Materials Needed for Infrastructure Trial

- 1. You will need the following materials available in your testing space prior to the Infrastructure Trial:
 - testing devices for students
 - a computer with which to monitor testing sessions
- 2. Prior to the Infrastructure Trial, you will receive the following materials for students assigned to you by the principal or school test coordinator:
 - student testing tickets
 - proctor testing tickets for Human Reader or Human Signer accommodations, if applicable
 - scratch paper and pencils

3. Additional Preparations for Computer-Based Testing

- Ensure all devices to be used for testing are charged.
- Make sure sufficient power cords and power strips are available.
- Confirm that accessories, such as external keyboards for tablets and headphones for students using the text-to-speech edition, are available and in working order prior to testing.

B. Before Students Arrive

- On the test administrator device, log in to the PearsonAccess^{next} training site (<u>https://trng-mcas.pearsonaccessnext.com</u>) and view your PAN Session on the Students in Sessions page.
- 2. Start your PAN Session.

3. Unlock students' tests.

Students' tests will be locked, by default, in the **Students in Sessions** screen when a PearsonAccess^{next} Session is started. Students will not be able to log in until the first test session has been unlocked by the test administrator. The test administrator can unlock a test session for the entire class by selecting the unlock bar at the top of the **Students in Sessions** page.

Session List	Add a Session	3ELA SIgnore Schedule	es 👻 🚯 Details 🖋 Edit
Combined View 2018 TEST	×	In Progress Stop 5	Session 🥃 Refresh
• 3ELA	×	3ELA (1 Student Test)	Student Test Status Key
○ 4:ELA	×	G/3ELA - Sess. 1	Ready
3 Sessions Clear		GrßELA - Sess. 2	Resumed, Resumed Upload
		1	Exited Completed, Marked
			Complete

Individual students' tests can also be unlocked one at a time by selecting the lock dropdown for a test session found to the right of the student's name on the **Students in Sessions** page.

Find Students In the selected session(s) above -												
				Search 👻								
Filters Organization	Clear Hide	2 Resu	ults								Displaying 2	5 🔻 Manage Columns
Select one or more		SA:	SID	Last Name	First Name	Middle Name	Username	Session	Gr6ELA - Sess. 1	Gr6ELA - Sess. 2	Form Group Type	Form
SASID		105	68548512 🚯	GRADE SIX	ELA ONLINE		0539867295	 ELA06 (Grade 6 ELA) 	Exited -	🔒 Ready 🛛 👻	Standard	18EL06STONEN01
Starts with		105	68548513 🚯	GRADE SIX	ELA ONLINE		5044781013	ELA06 (Grade 6 ELA)	Ready -		Standard	18EL06STONEN01
Local Student Code												
Starts with												

C. Administer Infrastructure Trial (use of the script is optional)

The following script is provided in order to assist test administrators with the administration of the Infrastructure Trial practice test. Unlike the scripts in the *Test Administrator's Manuals* for use during testing, test administrators are not required to read the script verbatim.

1. Say to students:

"Our school is about to begin a practice session for the computer-based MCAS test. This is an opportunity for you to practice MCAS questions in an environment similar to that of the real test. You should use this practice test to become more familiar with the computer-based testing system, and with MCAS questions. Your responses on this practice test will not affect your actual MCAS scores in any way."

2. Then say to the students:

"I will now distribute scratch paper for you to use during the session. If at any point you need more, raise your hand and I will give you an additional sheet. You may have up to three pages of scratch paper at one time."

3. For students using the text-to-speech or screen reader accommodation, which requires headphones, say:

"Put on your headphones and make sure they are plugged in. On your screen next to the 'Sign In' button, click the link that says 'Test Audio.' Confirm you can hear through your headphones and adjust the volume as needed."

4. Then say:

"I will now distribute the student testing tickets. Do not sign in until I instruct you to do so."

- 5. Distribute the student testing tickets. Testing tickets may or may not have student names on them depending on how the tests were set up for Infrastructure Trial. Make sure you do not hand out proctor testing tickets to students since responses are **NOT** saved in a test accessed with a proctor testing ticket.
- 6. Say to students:

"Now, on the computer, enter the username that is shown on your student testing ticket. Your username is a number that is 10 digits long."

Assist any students who need help entering their usernames. Then say:

"Now, on the computer, enter the password that is shown on your student testing ticket."

Assist any students who need help entering their passwords. Then say:

"Now, click the button that says 'Sign In."

Walk around the room and make sure that all students have successfully signed in. Assist any students who did not successfully sign in. You may retype usernames and passwords for students, if necessary. Either collect the student testing tickets at this time, or at the end of the session.

7. Once students are properly signed in, say:

"Your computer screen should now be at the 'Available Tests' screen."

8. Say to the students:

"Please keep your testing ticket with you and do not use it for scratch paper. I will need to collect it at the end of this test session.

Click the blue button on the screen that says 'Start.' You should now see a screen that says 'Welcome.'

Click the box in the middle of the screen that says 'Start.' You should now see a screen that says 'Session 1' at the top and states the number of questions below. If your screen does not say 'Session 1,' please raise your hand."

Note: Students who are completing session 2 of the Mathematics test should see a screen that says 'Session 2' at the top and states the number of questions below.

Assist any students who are not at the correct screen.

9. Then say to all students:

"Please read the directions that are on your screen." Pause to allow students to read the directions.

10. Then say to all students:

"Click the 'Start' button. You may now begin your test."

11. At the end of the session, say to any students still working:

"This is the end of the time scheduled for this session. At the top of the screen, click 'Review' and then click 'End of Section.' Click the 'Submit Final Answers' button to submit your answers. On the popup screen, confirm you'd like to 'Submit Final Answers.' When you've submitted your answers, exit the test by going to the User Dropdown Menu at the top, right hand corner of the screen and click 'Sign out of TestNav.'"

Collect testing tickets and scratch paper. Note that students will reuse testing tickets when doing Session 2 of the Mathematics test.

X. Monitoring the Infrastructure Trial

Steps for the Test Administrator to Monitor a Practice Test Session as Part of the Infrastructure Trial

A. How to Monitor PAN Sessions

Once an online test session has started, there are several tasks the test administrator may be responsible for, including resuming students, locking/unlocking sessions, and marking tests complete. The test administrator must have their own device to monitor the session and perform these actions.

The test administrator can use the **Students in Sessions** page to monitor students as they progress through each test session. The top of the **Students in Sessions** page contains a status bar for each test session. Underneath the status bar, each student will be listed, and the test administrator will be able to see the status of any particular student, as shown below.

Session List	Add a Session	GR3MATH								✓ Ignore	Schedule	🔒 Reso	urces 👻 🚯 Details 🖋 Edit
GR3MATH	×	In Progress										Stop	Session 2 Refresh
1 Sessions Ciear		GR3MATH (9 Gr3Math - Ses Gr3Math - Ses	s. 1	(s)	7	3				1	1	•	Student Test Status Key Ready Resumed, Resumed Upload Active Exited Completed, Marked Complete
Find Students In the selected sess	sion(s) above • Clear Hide	9 Results	Search -	1							Displa	ying 25	 Manage Columns -
Organization Select one or more		SASID	Lost Name	First Name	Middle Name	Userneme	Cassian	C-2Math (Gr3Math - S		Cree	up Type Form
SASID Starts with			SEVEN	DEMO	MIGDIE Name		GR3MATH (Grade 3 Math)	Ready		Ready	_	Form Gro Vain	18MA03SPONEN01
Local Student Code Starts with		1021309483	EIGHT	ANSWERMASKING		3654782252	 GR3MATH (Grade 3 Math) 	Ready	•	Ready	•	l ain	18MA03SPONEN01
Clip UIN Starts with		1045354535	TWO	CALCULATOR		4452917173	 GR3MATH (Grade 3 Math) 	Completed	d 🝷	Complet	ed 👻	l ain	18MA03SPONEN01
Group Select one or more		 1047328473 Calc 	FOUR	DEMO		5833623519	GR3MATH (Grade 3)	Exited		A Ready	•	Vain	18MA03SPONEN01

B. Test Administrator Tasks in PAN

The following table lists the statuses that may appear for a student in the **Session Details** and a description of what each status indicates.

Student Status Key						
Status	Description					
Ready	The student has not logged in to the session yet, but is ready to log in.					
Active	The student is currently logged into the test.					

Exited	The student has exited the test session, but has not submitted their responses yet (after a test session, after logging out to take a break, or if an error occurs). Students in Exited status will need to be resumed by a test administrator when they are ready to reenter the test. If a student logs out of a test session or if the testing device loses connectivity before the test is completed (or marked complete), the test will appear in Exited status. The test administrator will then need to resume the student's test (and the student will then appear as Resumed).
Completed	The student has completed the test session and has successfully submitted their responses.
Marked Complete	The student's test session has been marked complete by the principal/ designee (the student did not submit their test in TestNav themselves).
Resumed	The student is ready to log back into the test session. This status appears after a student has completed one test session for a subject area but not both, if a student returns from a break and is ready to continue testing in that session, or when attempting to continue after an error occurs.
Resumed-Upload	The student is ready to log back into the test session, and some responses were not sent to the testing subcontractor's (Pearson's) servers before the student exited the test. When the student logs into a test with a Resumed– Upload status, a staff member must be present. TestNav will prompt the user to locate the saved responses from the designated save location and upload them to TestNav before the student's test can be resumed.

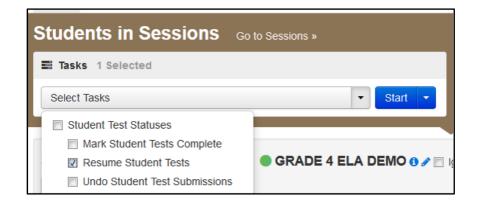
C. How to Resume Students' Tests

If students exit the test for a break, or due to technical error, their tests will need to be resumed prior to reentering the test. Students can be resumed one at a time, or many at a time.

To resume one student at a time, go to **Testing > Students in Sessions** and select **Resume** from the dropdown next to the student's name.

GR3MATH							☑ Ignore Schedule	e 🔒 R	Resources - 🚯 Details 🖋 Edit
In Progress									Stop Session 2 Refresh
GR3MATH (9 Stu Gr3Math - Sess.							A) 🗗	Student Test Status Key Ready
		8				2	1		Resumed, Resumed Upload
Gr3Math - Sess.	2			8			<u>۹</u> (1	•	Exited Completed, Marked
									Complete
	Search 🔹								
9 Results							Displa	aying	25 • Manage Columns •
SASID	Last Name	First Name	Middle Name	Username ▲	Session	Gr3Math - Sess. 1	Gr3Math - Sess. 2	Form	Group Type Form
1023849032 (1)	SEVEN	DEMO		2621113989	GR3MATH (Grade 3 Math)		Ready -	Main	18MA03SPONEN01
1021309483 ()	EIGHT	ANSWERMASKING		3654782252	GR3MATH (Grade 3 Math)	Resume	leady 🝷	Main	18MA03SPONEN01
1045354535 ()	TWO	CALCULATOR		4452917173	GR3MATH (Grade 3 Math)		Completed -	Main	18MA03SPONEN01

To resume more than one student's test, go to **Testing > Students in Sessions**. Be sure the PAN Session is selected in the **Session List**. Check the box next to the student names whose tests are to be resumed, and select **Resume Student Tests** from the **Select Tasks** menu. Click **Start**.



Select the students whose tests you would like to resume, and click **Resume**.

Tasks for Students in Sessions		Add Task	<pre>Previous Task Next Task Exit Tasks ¥</pre>
Resume Student Tests			
Resume Student Tests			Resume Reset
STUDENTS IN SESSIONS (2)	DETAILS		
STUDENT NAME (CODE)	SESSION (STUDENT TEST)	Gr8ELA - Sess. 1	Gr8ELA - Sess. 2
STUDENT, NEW (2972280454) 3	GRADE 8 ELA ROOM 106 (Grade 8 ELA)	Exted.	O Completed
STUDENT, NEW (6199298213) 3	GRADE 8 ELA ROOM 106 (Grade 8 ELA)	Exited	Ø Ready
This action is not reversible.			
* Required			
Resume			

After clicking Resume, a message will display stating **Success, changes saved.** Click **Exit Tasks** to return to the **Students in Session** screen. The resumed student(s) will now be able to reenter the test.

D. How to Stop a PAN Session

Before a PAN Session can be stopped, all students in the PAN Session must be either in Completed or Marked Complete status. You may also need to remove any students in Ready status who received testing tickets but did not log in to the test.

To remove students in "Ready" status from a PAN Session:

- Go to **Students in Sessions** and check the box next to the student record(s) to be removed.
- Select Remove Students from Sessions from the Select Tasks dropdown and click Start.

Students in Sessions GO	to Sessions »
Tasks 1 Selected	
Select Tasks	▼ Start ▼
 Student Test Statuses Mark Student Tests Complete Resume Student Tests Undo Student Test Submissions Students 	● GRADE 4 ELA DEMO 0 / □
 Add Students to Sessions Remove Students from Sessions 	Grade 4 ELA/Literacy
Move Students between Sessions	Gr4ELA -Unit 1

Check the box beside the student record(s) and click **Remove**. Click **Exit Tasks** to return to the **Students in Session** screen.

Re	emove Students from Sessions
	1 Remove Students from Sessions
0	STUDENT NAME (CODE)
0	STUDENT, NEW (203418834777425290482508129103)
	equired
1	Remove Reset

To mark a student's test complete for a student who logged on, but did not complete the test: Go to the **Student in Sessions** page and check the box next to the student record(s) that need to be marked complete.

Select Mark Student Tests Complete from the Select Tasks dropdown. Click Start.

Students in Sessions GO	to Sessions »
Tasks 1 Selected	
Select Tasks	▼ Start ▼
Student Test Statuses	
Mark Student Tests Complete	
Resume Student Tests	GRADE 4 ELA DEMO 6 /
Undo Student Test Submissions	

Enter the reason for marking the test complete. Click the **Mark Complete** button.

Tasks for Students in Sessions		O Add Task	<pre> Previous Task Next Task > </pre>	Exit Tasks 🗙
Mark Student Tests Complete				
Mark Student Tests Complete			Mark Comp	lete Reset
Reason*				
Student transferred to another school				
Use the same Reason for checked Students in S	Sessions			
STUDENTS IN SESSIONS (1)	DETAILS			
STUDENT NAME (CODE)	SESSION (STUDENT TEST)	Gr8ELA - Sess. 1	Gr8ELA - Sess. 2	
STUDENT, NEW (6050608506) 3	GRADE 8 ELA ROOM 106 (GRADE 8 ELA)	☑ Exited	☑ Exited.	
This action is not reversible.				
* Required				
Mark Complete Reset				

Once all students in a Ready status have been removed, or are in a Completed or Marked Complete status, select the **Stop Session** button on the **Students in Sessions** page.

Students in Sessions Got	o Sessions »	
Tasks 0 Selected	Students in Sessions 4	Selected Clear
Select Tasks	▼ Start ▼ Manage	-
Session List	GRADE 8 ELA ROOM 106	
Add a Session	📄 Ignore Schedule 🔒 Resources 👻 🚯 Details 🥒 Edit	
GRADE 8 ELA ROOM 106	In Progress	Stop Session 2 Refresh
GRADE 8 ELA ROOM 200		
	GRADE 8 ELA ROOM 106 (5 Student Tests)	Student Test Status Key
	Gr8ELA - Sess. 1	A Ready
	5	Ready
2 Sessions Clear	Gr8ELA - Sess. 2	Resumed Upload
		A Cive
	5	Completed, Marked
		Complete

XI. Follow-up

Steps for the district test coordinator, principal/school test coordinator, test administrators, and the technology coordinator

Once the school's Infrastructure Trial has been completed, staff participating in it should review their notes. Follow-up steps include the following:

- Share any notes regarding the need for support with the principal or test coordinator.
- Report to the principal or test coordinator any issues that could not be resolved with assistance from the MCAS Service Center.
- Schools may wish to <u>schedule a call with Pearson's technology support specialists</u> to review any issues with the Infrastructure Trial and to prepare for the test administration.

Appendix A: Terms Related to Computer-Based Testing

PearsonAccess^{next} (PAN): The online test management system for principals/test coordinators, technology coordinators, and test administrators to manage user accounts, register students, and upload selected accessibility features and accommodations via the Student Registration/Personal Needs Profile (SR/PNP), assign student tests, and set up Sessions. The PAN operational site is available at mcas.pearsonaccessnext.com/.

PearsonAccess^{next} **Training site:** The online practice site to run the Infrastructure Trial. Usernames and passwords for the training site will match those for the live site. The training site is available at <u>trng-</u><u>mcas.pearsonaccessnext.com/</u>.

PearsonAccess^{next} **Session:** An assigned group of students in PearsonAccess^{next} who will be testing at the same time and place. (This is different from the actual "test session.")

TestNav: This is the online test delivery platform for students. Technology requirements and set-up instructions can be found at <u>mcas.pearsonsupport.com/technology-setup/</u>.

Appendix B: ProctorCache Recommendation for Spring 2021 MCAS Computer-Based Testing

Below is an updated recommendation for winter 2021 on whether schools should use Pearson's ProctorCache software. ProctorCache precaches test content onto a designated machine in a school to reduce bandwidth requirements. ProctorCache does **not** store student responses, only test content.

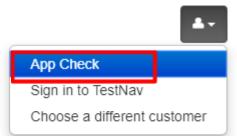
Now that 98 percent of Massachusetts districts meet the 100 Kbps/student <u>federal recommendation</u> for digital learning and online testing, ProctorCache is **only** recommended for schools who do not pass the Network Check in TestNav. ProctorCache is not recommended for schools that pass the Network Check because it can cause more errors to occur, and item load times with and without ProctorCache are virtually identical.

To determine whether your school needs to use ProctorCache, run the Network Check in TestNav.

Run the <u>Network Check</u> in TestNav

Follow these instructions to test your network in TestNav and confirm if ProctorCache is needed.

While on the school's network, in the TestNav app, click on the User Drop Down and select <u>App Check</u>.

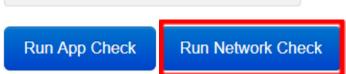


On the next screen, click on Run Network Check.

Enter a configuration identifier or click "Run App Check" to run the default app check.

Configuration Identifier (optional):

Configuration Identifier



On the following screen, you will be asked to enter a number of computers. This number should match as closely as possible the number of computers that will be used for testing on test day. Once a number has been entered, click on <u>Start Diagnostics Test</u>.

Network Check

× Cancel

Estimate a school or test center's capacity to conduct online testing.

Number of computers		
100		
Start Diagnostics Test		

Following this test, you will receive a message informing you whether ProctorCache is recommended based on your network and number of computers entered.

If ProctorCache is not recommended, you will receive a message with a green **Pass** icon.

Configuration Identifier (o	ptional):			
Configuration Identifier				
Run App Check	Run Network Check			
Network Diagnosti	cs			
Download Speed Test		13.59 Mbps		
Test Results Pass				
Given the current load	on your system, you should be a	able to test at this location.		
Proctor Cache is not	Proctor Cache is not recommended			

If Proctor Cache is recommended, you will receive a message with an orange Warning icon.

Configuration Identifier (optional): Configuration Identifier Run App Check Run Network Check Network Diagnostics Download 12.95 Mbps Speed Test Test Results Warning Given the current load on your system, you cannot successfully test at this location. Proctor Cache is recommended

Network Check Result	ProctorCache Recommendation	ProctorCache Recommendation
	for Schools That Used	for Schools That Did <u>NOT</u> Use
	ProctorCache in their Last CBT	ProctorCache in their Last CBT
	Administration	Administration
Pass	Disable ProctorCache prior to	Do not install ProctorCache
	the Infrastructure Trial.	software.
Warning	Use ProctorCache.	Install ProctorCache.

Instructions to Disable and Re-Enable the ProctorCache Configuration

To disable the existing ProctorCache configuration in PearsonAccess Next, follow these steps:

- 1. Click on Setup and TestNav Configurations.
- 2. Click the dropdown next to the **Search** button, and click **Show All Results**.
- 3. Select your configuration and click the Select Tasks dropdown, select Create/Edit TestNav Configurations, and click Start.
- 4. Select your configuration on the left side of the screen and scroll down to the **Precaching Computers** section.
- 5. Delete the content in the IP Address and Port fields and then click Save.

To re-enable ProctorCache after disabling, follow the same steps and re-apply the **IP Address** and **Port** fields (these fields are shown in the screen shot below).

Schools using Mac OS devices for their ProctorCache machine should note that they will need to use a previous version of ProctorCache software since ProctorCache software for MacOS is not being updated. Contact the MCAS Service Center at 800-737-5103 for instructions.

FSE Test	Save
Configuration Name*	
FSE Test	
Precaching Computer Override ()	
Organizations*	
* PEARSON DEMO SCHOOL (11331133)	
(11001100)	
Precaching Computers (1) Add	
FSE Caching	Response File Backup Locations
Computer Name*	Please use the following format for SFTP file backup location: sftp:// <userid>:<password>@<address>:<port>/path</port></address></password></userid>
FSE Caching	
	Windows, Primary Location
Default computer used for sessions	Use default user directory
IP Address	Windows, Secondary Location 1
	sftp://FSETest:FSETest123@10.0
Port	MAC, Primary Location ①
	Use default user directory
Configuration Identifier 1	MAC, Secondary Location 0
4JE7WE6P2A	MAG, Secondary Location U

Best Practices for Using ProctorCache

If ProctorCache is needed, a ProctorCache machine at the school level is recommended (a machine at the district level is not recommended). Using ProctorCache at the school level instead of at the district level will allow for continued connectivity during an Internet outage (if students have already logged in). **Students configured to connect to a district ProctorCache machine may lose connection during an outage.** Schools with district configurations have also reported connectivity issues, as well as log-in issues, with larger numbers of students connecting to a single ProctorCache, which can overload the machine.

It is also recommended that the device selected to act as the ProctorCache machine during testing is reserved for this purpose only. A device performing other functions in the school can result in delays when students navigate from one question to the next during testing.

During test administration, if the school experiences a loss of Internet connection, students who are already logged into the test should be able to continue testing. If the Internet connection does not restore before students are finished, have the students exit TestNav. Then, write down the device IDs and have the students sign back in when the Internet connection is restored so that they can submit their final answers. If a student is testing on a Chromebook, do **not** power off the device unless there is a secondary save location already set up.

Schools can <u>set up a call with Technology Support Specialists</u> prior to testing. This is an opportunity for technology coordinators to receive support with the following:

- Technology set-up and site readiness
- Questions about TestNav
- ProctorCache set-up
- TestNav configurations in PearsonAccess^{next}
- Infrastructure Trials (set-up as well as debriefing)

Appendix C: Best Practices for MCAS Computer-Based Testing Set-Up, Administration, and Troubleshooting

The tables below describe some best practices for a successful computer-based test (CBT) administration:

- 1. Technology set-up
- 2. Steps for test coordinators and test administrators during test administration
- 3. Troubleshooting common computer-based testing issues

Further details will be provided in the winter 2021 MCAS *Principal's Administration Manual*. Direct technology questions to the MCAS Service Center at mcas@cognia.org or 800-737-5103 and policy questions to the Department at mcas@doe.mass.edu or 781-338-3625, and contact the MCAS Service Center to report any technology issues that cannot be solved quickly at the local level. Prior to testing, technology coordinators can also set up a call with technology support specialists, as detailed in the table below. During testing, if there is a situation in which a student is waiting for more than 15 minutes, then schedule the student to complete the session at a later time.

1.	Techno	logy	Set-Up	
				E

Best Practice	Steps to Take	Description
Determine whether to precache test content based on the school's bandwidth.	Review the <u>ProctorCache Recommendation for 2021</u> <u>MCAS Computer-Based Testing</u> .	If you decide to use precaching based on the result of the Network Check, download ProctorCache and set it up in PearsonAccess ^{next} for all test sessions.
Determine whether to conduct an Infrastructure Trial	Review the Infrastructure Trial Overview in the Infrastructure Trial Guide on the MCAS Resource Center, which provides an overview and purposes of the infrastructure trial. The trial is designed to confirm that:	If your organization has successfully administered school-wide CBT, and you are able to confirm the five bulleted items in the list to the left, your organization may not need to conduct an infrastructure trial.
	 TestNav is configured correctly If precaching, the ProctorCache machine is properly configured to deliver test content to devices Devices can successfully run TestNav Participating staff know how to monitor and manage a computer-based MCAS test Students are familiar with the computer-based tools and format 	If one or more items in the bulleted list to the left cannot be confirmed, or if your technology setup has significantly changed since the last CBT administration (including schools that will be using Bring Your Own Device for the first time), an Infrastructure Trial is recommended.

Best Practice	Steps to Take	Description
Verify that devices and operating systems meet system requirements prior to testing.	 Visit the system requirements page for the most updated information. Turn off auto-update on Chromebooks to avoid auto-updating to an unsupported OS. See instructions under "Set up all Chromebooks" below. 	Operating systems, particularly iOS and ChromeOS, update frequently. Students may not be able to test or may experience interruptions if the testing device/operating system is not supported.
Set up all Chromebooks to suspend OS updates, including peer-to-peer, during testing.	Sign into the Google Admin console, go to Device , click Chrome , click Settings . Choose the organization you want to update these settings for. Go to Device , click Auto Update Settings , select Block Updates , click Save .	If the ChromeOS is set to automatically update, this could take place during testing, which could cause student connectivity or device issues.
		This ChromeOS feature can be managed by a Chrome administrator. Chrome releases a full OS update about every 6 weeks, and releases minor updates approximately every 2–3 weeks.
Disable ChromeOS accessibility settings.	Sign into the Google Admin console, go to Device , click on Chrome , click on Settings. Scroll down to Sign-in screen accessibility and select Disable for the accessibility features you wish to turn off.	ChromeOS accessibility settings can interfere with supports the student may have in TestNav. Disabling ChromeOS accessibility settings prior to testing allows for the students' supports to work smoothly.
Set up a Secondary Save Location in the TestNav configuration in PAN.	When in PAN, click Setup > TestNav Configurations > Create/Edit Configurations. On the right-hand side, there are fields to set up a secondary save location on a local server.	Setting up a secondary save location will allow TestNav to write a student response file to both the device as well as the secondary location. It provides a backup in case of a lost response due to a connectivity, power, or device issue, when the primary response on the student device cannot be located. In the case of Chromebooks set to wipe data, this step is necessary to create a backup file of each student response.
		Chromebooks, iPads, and Android Tablets can only use an SFTP server for secondary save locations. These mobile devices cannot use UNC paths or mapped network drives. An example of the required SFTP path format is provided in the TestNav Configurations Menu.

Best Practice	Steps to Take	Description
Minimize system impact	 Before testing: Disable low-end wireless protocols that are not being used. Turn off students' cell phones to avoid potential interference during testing. Ask classrooms to stagger logins to minimize initial loading time. For example, in a class of 30 students, the proctor can have 10 students log in each minute, decreasing the strain on the network. 	Taking these steps in advance of testing will reduce the impact of testing on local networks.
Schedule a call with Technology Support Specialists	Before testing, <u>schedule a 15-, 30-, or 60- minute call</u> for one-on-one support with Pearson's technology support specialists (i.e. Field Service Engineering).	 This is an opportunity for technology coordinators to receive support with the following: Technology set-up and site readiness Questions about TestNav ProctorCache set-up TestNav configurations in PearsonAccess^{next} Infrastructure Trials (set-up as well as debriefing)

2. Steps for Test Coordinators and Test Administrators During Test Administration

Best Practice	Steps to Take	Description
 Have the following materials available, and confirm if they are in working order: power cords, power strips, extra batteries, extra computers to serve as back-up devices that can be used if needed computer mice and wired external keyboards (strongly recommended for students using tablets) headphones for students with disabilities using the text-to-speech accommodation (See the <u>Accessibility and</u> <u>Accommodations Manual</u> for details.) Ensure that devices will be charged prior to each test 	 Use the device planner to determine the number of devices needed at a given time. Students who will be using a touchpad (only) should complete practice tests with the touchpad to familiarize themselves with answering the different question types prior to testing. External keyboards are strongly recommended due to the smaller screen size on a tablet when using the internal keyboard. 	Schools have reported that some students had a challenging experience with some of the technology-enhanced test questions when they used a touchpad (only). Schools have reported that students cannot see all the parts in a test question or all the writing space available due to the reduced screen size when the keyboard pops up.
session. Keep a log of the devices that students will use during testing.	Mark the local device ID number on each student's testing ticket or an internal tracking form, or maintain a spreadsheet.	If a student's device experiences an interruption in testing, responses are saved on that device. If it appears that the student is "missing answers," resume the student's test in PAN and have the student sign back into TestNav on the same device to transmit responses. If the device cannot be located, and there is no secondary save location, there is no way to find a student response file.

Best Practice	Steps to Take	Description
If the student is in Resumed	Contact the technology coordinator to upload the student	"Skipping upload" tells TestNav that there is no student
Upload status, do not skip	response file for the student.	response file to be found, and the system will then auto-delete
upload when prompted by		any previous student response files and create a new one. If the
TestNav.		student had missing responses, there will be no file to locate.

3. Troubleshooting Common Computer-Based Testing Issues

Issue	Solution
Loss of Internet connection	 If the Internet connection does not restore before students are finished, have the students exit TestNav, write down the device IDs, and have them sign back in on the same testing device when the Internet connection is restored, so that the students can submit their final answers. If the student is testing on a Chromebook, do not power off the device, unless there is a secondary save location already set up. If the issue cannot be resolved immediately, the test administrator should instruct students to stay logged out of TestNav. Testing can resume when Internet connectivity is restored that day (or the next day if connectivity is not immediately restored).
Loss of power	 When power is restored, the test administrator should instruct students to log back in on the same testing devices; this will ensure that all saved responses are transmitted properly. If a school uses Chromebooks that are set to wipe data on reboot, the technology coordinator will need to find students' response files in the secondary save location and upload them to TestNav before the students' tests can be resumed.
A student runs out of space on the ELA test, or the character counter shows 0.	 Check the character counter to see if the student used all of the available characters. If the student has reached the maximum number of characters, instruct the student to edit their work so that it will fit in the space provided. Students whose computer shows fewer characters than what appears on-screen may have hidden spaces or other characters in the text box taking up space. To restore the full character count, highlight the entire box, scrolling all the way down to catch any hidden characters, and click delete.
A student started testing with the wrong accommodation (e.g., a student needs text-to-speech but does not have TTS enabled).	 Follow the steps in the "Resolving Incorrect Accommodations During Testing" module, which is available at mcas.pearsonsupport.com/training/.
TestNav Error Codes	TestNav error codes contain a reference number that can be used to troubleshoot the issue and view recommended actions. Error codes are available here: https://support.assessment.pearson.com/display/TN/Error+Codes