

# Next Generation Science Standards Interim Assessments

**Quick Guide** 

2023-2024

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Prepared by Cambium Assessment, Inc.

#### **INTRODUCTION**

This quick guide provides the following information related to the Next Generation Science Standards (NGSS) Interim Assessments:

- I. an overview of the NGSS Interim Assessments offered;
- II. instructions for how to preview the NGSS Interim Assessment in the Assessment Viewing Application (AVA);
- III. instructions for a student to log in and take an NGSS Interim Assessment using the Secure Browser;
- IV. instructions for how to proctor an NGSS Interim Assessment in the Test Administration Interface; and
- V. instructions for how to access NGSS Interim Assessment results in the Centralized Reporting System (CRS).

#### I. OVERVIEW OF THE NGSS INTERIM ASSESSMENTS

The NGSS Interim Assessments are an optional assessment resource available for use by local school districts in Connecticut. Important notes related to the NGSS Interim Assessments include:

- All items on the NGSS Interim Assessment are machined-scored.
- Once a NGSS Interim Assessment has been taken and submitted by a student, the results are reported immediately in the Centralized Reporting System.
- All embedded designated supports offered on the NGSS Summative Assessments are available on the NGSS Interim Assessments, including text-to-speech and Spanish translation.
- Teachers can securely log in to AVA to preview the NGSS Interim Assessments without having to take the test using the Secure Browser.
- Students will have unlimited opportunities to take each NGSS Interim Assessment; however, the same NGSS Interim Assessment cannot be taken twice in one day.
- Universal eligibility is available, which means all students will be eligible for all NGSS Interim
  Assessments regardless of grade. Teachers do not need to go in to TIDE to set interim grades for
  off-grade tests.

The NGSS Interim Assessments can be administered remotely at home using the Cambium Secure Browser, the SecureTestBrowser iPad app, <u>or</u> Chrome or Firefox browsers.

There are 109 NGSS Interim Assessment clusters and standalone items across three grade bands (Grades 3-5, Grades 5-8, and Grades 9-12). NGSS Interim Assessment items assess standards from Earth/Space, Life, and Physical Science. Each NGSS Interim Assessment is either a cluster or standalone item. Each item includes a phenomena-based scenario. Clusters include several item interactions, while standalone items contain one or two interactions. A cluster or a standalone item is aligned to a single NGSS performance expectation.

Further Information about the use of the NGSS Interim Assessments can be found here.

<u>Table 1</u> indicates the NGSS Interim Assessments available for elementary school students in Grades 3-5. Each NGSS Interim Assessment contains one item, so there are 18 item clusters and 15 standalone items in total. Interim Assessments marked with an asterisk (\*) indicate that the test is also offered in braille. Tests in light blue were recently added in December 2023.

Table 1. NGSS Interim Assessments: Elementary School (Grades 3-5)

Interim Assessment Name	Standalone/ Cluster
Interim ES Earth and Space Science - PE 3-ESS2-1 A*	Cluster
Interim ES Earth and Space Science - PE 4-ESS2-1	Cluster
Interim ES Earth and Space Science - PE 5-ESS1-2 A	Cluster
Interim ES Earth and Space Science - PE 5-ESS2-2*	Cluster
Interim ES Earth and Space Science - PE 4-ESS3-1 B	Cluster
Interim ES Earth and Space Science – PE 4-ESS2-1	Cluster
Interim ES Life Science - PE 3-LS3-1	Cluster
Interim ES Life Science - PE 3-LS4-1*	Cluster
Interim ES Life Science - PE 5-LS2-1 A*	Cluster
Interim ES Life Science – PE 5-LS1-1*	Cluster
Interim ES Physical Science - PE 3-PS2-2	Cluster
Interim ES Physical Science - PE 4-PS3-4*	Cluster
Interim ES Physical Science - PE 4-PS4-1	Cluster
Interim ES Physical Science - PE 4-PS4-2	Cluster
Interim ES Physical Science - PE 4-PS4-3	Cluster
Interim ES Physical Science - PE 5-PS1-2 A	Cluster
Interim ES Physical Science - PE 5-PS2-1*	Cluster
Interim ES Physical Science - PE 5-PS1-4	Cluster
Interim ES Earth and Space Science - PE 3-ESS2-1 B	SA
Interim ES Earth and Space Science - PE 4-ESS1-1	SA
Interim ES Earth and Space Science - PE 4-ESS3-1	SA
Interim ES Earth and Space Science - PE 4-ESS3-2	SA
Interim ES Earth and Space Science - PE 5-ESS1-2 B	SA
Interim ES Earth and Space Science – PE 5-ESS2-2 B	SA
Interim ES Earth and Space Science – PE 4-ESS3-2 B	SA
Interim ES Life Science - PE 3-LS4-3	SA
Interim ES Life Science - PE 4-LS1-1	SA
Interim ES Life Science - PE 4-LS1-2	SA
Interim ES Physical Science - PE 3-PS2-1 B*	SA
Interim ES Physical Science - PE 4-PS3-3*	SA
Interim ES Physical Science - PE 5-PS1-2 B	SA
Interim ES Physical Science - PE 4-PS3-2	SA
Interim ES Physical Science – PE 4-PS4-2 B	SA

<u>Table 2</u> indicates the NGSS Interim Assessments available for middle school students in Grades 6-8. Each NGSS Interim Assessment contains one item, so there are 24 item clusters and 14 standalone items in total. Interim Assessments marked with an asterisk (\*) indicates that the test is also offered in braille. Tests in light blue were recently added in December 2023.

Table 2. NGSS Interim Assessments: Middle School (Grades 6-8)

Interim Assessment Name	Standalone/ Cluster
Interim MS Earth and Space Science - PE MS-ESS1-2	Cluster
Interim MS Earth and Space Science - PE MS-ESS1-4	Cluster
Interim MS Earth and Space Science - PE MS-ESS2-1 A*	Cluster
Interim MS Earth and Space Science - PE MS-ESS2-5	Cluster
Interim MS Earth and Space Science - PE MS-ESS3-3	Cluster
Interim MS Earth and Space Science – PE MS-ESS2-2*	Cluster
Interim MS Earth and Space Science – PE MS-ESS2-6	Cluster
Interim MS Earth and Space Science – PE MS-ESS3-2	Cluster
Interim MS Life Science - PE MS-LS1-3*	Cluster
Interim MS Life Science - PE MS-LS1-7	Cluster
Interim MS Life Science - PE MS-LS1-8	Cluster
Interim MS Life Science - PE MS-LS2-2	Cluster
Interim MS Life Science - PE MS-LS3-1*	Cluster
Interim MS Life Science - PE MS-LS3-2	Cluster
Interim MS Life Science - PE MS-LS4-4	Cluster
Interim MS Life Science - PE MS-LS4-6	Cluster
Interim MS Life Science – PE MS-LS4-5	Cluster
Interim MS Physical Science - PE MS-PS1-4	Cluster
Interim MS Physical Science - PE MS-PS1-5	Cluster
Interim MS Physical Science - PE MS-PS2-2*	Cluster
Interim MS Physical Science - PE MS-PS3-3 A	Cluster
Interim MS Physical Science - PE MS-PS3-3 B	Cluster
Interim MS Physical Science - PE MS-PS3-4	Cluster
Interim MS Physical Science - PE MS-PS4-1*	Cluster
Interim MS Earth and Space Science - PE MS-ESS1-3	SA
Interim MS Earth and Space Science - PE MS-ESS2-3	SA
Interim MS Earth and Space Science - PE MS-ESS3-4	SA
Interim MS Earth and Space Science – PE MS-ESS3-5	SA
Interim MS Life Science - PE MS-LS4-1	SA
Interim MS Life Science - PE MS-LS1-2	SA
Interim MS Life Science - PE MS-LS2-4	SA
Interim MS Life Science - PE MS-LS2-5	SA
Interim MS Life Science – PE MS-LS1-4	SA
Interim MS Life Science – PE MS-LS4-1 B*	SA
Interim MS Physical Science - PE MS-PS1-6	SA
Interim MS Physical Science - PE MS-PS3-5	SA
Interim MS Physical Science – PE MS-PS1-2 *	SA
Interim MS Physical Science – PE MS-PS3-2	SA

<u>Table 3</u> indicates the NGSS Interim Assessments available for high school students in Grades 9-11. Each NGSS Interim Assessment contains one item, so there are 24 total item clusters and 14 standalone items in total. Interim Assessments marked with an asterisk (\*) indicates that the test is also offered in braille. Tests in light blue were recently added in December 2023.

Table 3. NGSS Interim Assessments: High School (Grades 9-11)

Interim Assessment Name	Standalone/ Cluster
Interim HS Earth and Space Science - PE HS-ESS1-2	Cluster
Interim HS Earth and Space Science - PE HS-ESS1-3*	Cluster
Interim HS Earth and Space Science - PE HS-ESS1-4	Cluster
Interim HS Earth and Space Science - PE HS-ESS1-6	Cluster
Interim HS Earth and Space Science - PE HS-ESS2-3	Cluster
Interim HS Earth and Space Science - PE HS-ESS2-4	Cluster
Interim HS Earth and Space Science - PE HS-ESS2-7	Cluster
Interim HS Earth and Space Science - PE HS-ESS3-3	Cluster
Interim HS Earth and Space Science - PE HS-ESS3-4*	Cluster
Interim HS Earth and Space Science - PE HS-ESS3-5	Cluster
Interim HS Earth and Space Science – PE HS-ESS3-4	Cluster
Interim HS Life Science - PE HS-LS1-2	Cluster
Interim HS Life Science - PE HS-LS1-3	Cluster
Interim HS Life Science - PE HS-LS2-2	Cluster
Interim HS Life Science - PE HS-LS3-2*	Cluster
Interim HS Life Science - PE HS-LS4-1 A*	Cluster
Interim HS Life Science - PE HS-LS4-2 A	Cluster
Interim HS Life Science – PE HS-LS2-6	Cluster
Interim HS Physical Science - PE HS-PS3-1	Cluster
Interim HS Physical Science - PE HS-PS4-1	Cluster
Interim HS Physical Science – PE HS-PS1-1	Cluster
Interim HS Physical Science – PE HS-PS1-2	Cluster
Interim HS Physical Science – PE HS-PS2-2	Cluster
Interim HS Physical Science – PE HS-PS2-5	Cluster
Interim HS Earth and Space Science - HS-ESS2-6*	SA
Interim HS Earth and Space Science – PE HS-ESS1-6 B	SA
Interim HS Life Science - PE HS-LS1-1	SA
Interim HS Life Science - HS-LS1-6	SA
Interim HS Life Science - PE HS-LS2-1	SA
Interim HS Life Science - PE HS-LS2-7	SA
Interim HS Life Science - PE HS-LS3-3	SA
Interim HS Life Science - PE HS-LS4-1 B	SA
Interim HS Life Science - PE HS-LS4-2 B	SA
Interim HS Life Science – PE HS-LS2-4	SA
Interim HS Life Science – PE HS-LS4-5	SA
Interim HS Physical Science - HS-PS1-6	SA
Interim HS Physical Science - HS-PS3-5	SA
Interim HS Physical Science – PE HS-PS1-5	SA

### II. HOW TO PREVIEW THE NGSS INTERIM ASSESSMENT IN THE ASSESSMENT VIEWING APPLICATION

Teachers may view the items on the NGSS Interim Assessment without needing to launch the Secure Browser. If teachers want to see the items on an NGSS Interim Assessment without taking a test via the Secure Browser, they can preview items using AVA.

The Assessment Viewing Application is a secure online system that allows authorized users to view the NGSS Interim Assessments for administrative or instructional purposes. This secure online system may be used for viewing assessments and items and will also provide scores and answer keys. You must have a Test Information Distribution Engine (TIDE) account to access any secure online system. If you do not have a TIDE account, please contact your School Test Coordinator or District Test Coordinator.

Instructions for logging in to AVA and selecting an NGSS Interim Assessment in the application are provided below.



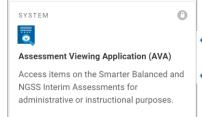
### LOGGING IN TO AVA

From the Connecticut
Comprehensive Assessment Program
Portal

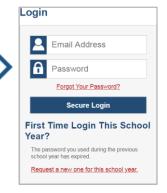
(https://ct.portal.cambiumast.com/), select the NGSS Assessments program card.



Click the
Assessment Viewing
Application (AVA)
card. The AVA login
page appears.

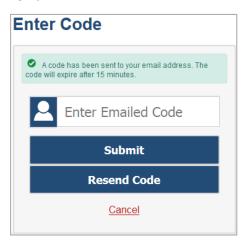


Enter your school email address and password in the appropriate fields, then click **Secure Login**.

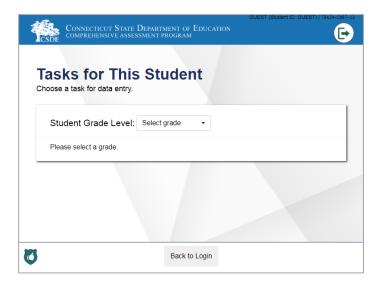


If this is your first time logging in to AVA for the school year, from a new device, or after clearing your browser's cache, the **Enter Code** page appears. If this page does not appear, proceed to Step 5.

If the **Enter Code** page appears, an authentication code is automatically sent to your email address. You must enter this code in the *Enter Emailed Code* field and click **Submit** within 15 minutes of receiving the code via email.



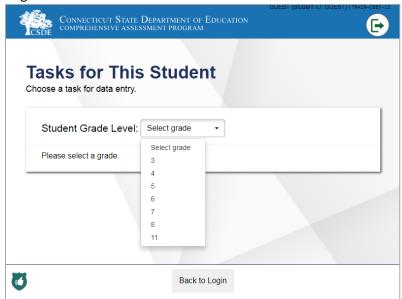
5 The AVA *Tasks for This Student* page appears.



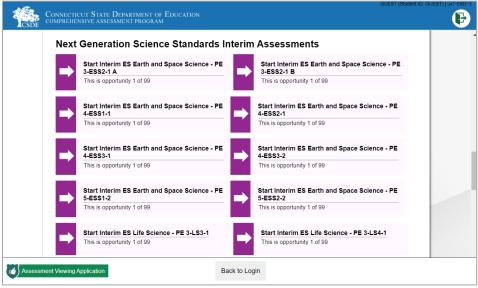
### SELECTING AN NGSS INTERIM ASSESSMENT IN AVA

On the AVA *Tasks for This Student* page, select the grade from the **Student Grade Level** dropdown list that corresponds to the NGSS Interim Assessment that you would like to preview. The available selections are indicated below.

- Grade 5: Elementary School NGSS Interim Assessments
- Grade 8: Middle School NGSS Interim Assessments
- Grade 11: High School NGSS Interim Assessments

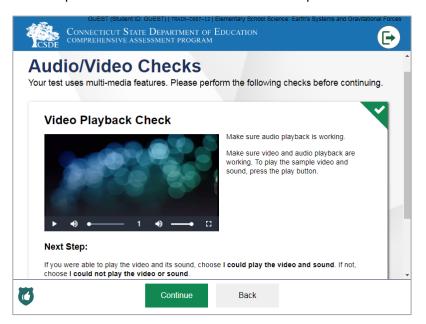


The corresponding NGSS Interim Assessments appear on the *Tasks for This Student* page directly under the Smarter Balanced Interim Assessments; you must scroll down to view the NGSS Interim Assessments that are available for preview. All NGSS Interim Assessments are color-coded in purple.



Because the NGSS Interim Assessments utilize online simulations, the *Audio/Video Checks* page appears. To play the sample video and sound, click the play button. If you were able to play the video and its sound, click the **I could play the video and sound** button. Then, click the **Continue** button to begin previewing the selected NGSS Interim Assessment.

Please note that, outside of text-to-speech, there is no audio on the NGSS Interim Assessments. Headphones are not required unless the student needs text-to-speech.

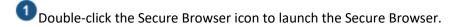


# III. INSTRUCTIONS FOR A STUDENT TO LOG IN AND TAKE AN NGSS INTERIM ASSESSMENT USING THE SECURE BROWSER

Students can take the NGSS Interim Assessments using the Secure Browser or internet browsers such as Chrome and Firefox. The Secure Browser is the same browser used for the Smarter Balanced Summative and Interim Assessments, the NGSS Summative Assessments, and the Connecticut Alternate Assessment (CTAA).

The Secure Browser can be downloaded from the Connecticut Comprehensive Assessment Program Portal by following the instructions located on the <u>Secure Browsers</u> page. Please note that if the 2023–2024 Secure Browsers have already been installed on your computers, you do not need to install a new Secure Browser to access the NGSS Interim Assessments.

### **ACCESSING THE NGSS INTERIM ASSESSMENT – STUDENT**

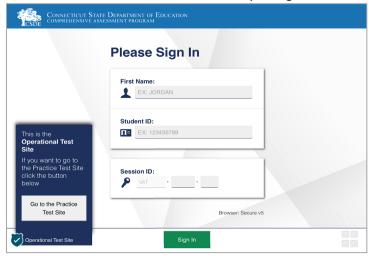




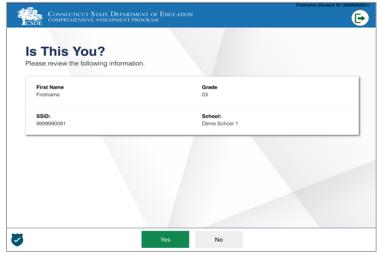
Once the Secure Browser is launched, the student will see a login screen to access the Student Interface. The Student Interface is where the student will sign in to and take the NGSS Interim Assessments. To sign in to the Student Interface, students must enter three pieces of identifying information for each appropriate field: their First Name, their State-Assigned Student Identifier (SASID), and the current Session ID (provided by the Test Administrator).

When the student has entered this information in each appropriate field, the student must click the **Sign In** button to log in to take the test. The Test Administrator (TA) may assist students with logging in, if necessary. The Session ID is generated when the Test Administrator creates the test session and

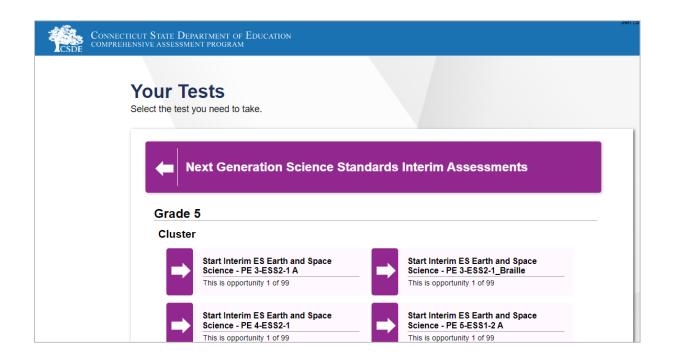
will be given to students by the TA when it is time for them to log in to the test. Session IDs should not be generated more than 20 minutes before students are ready to log in.



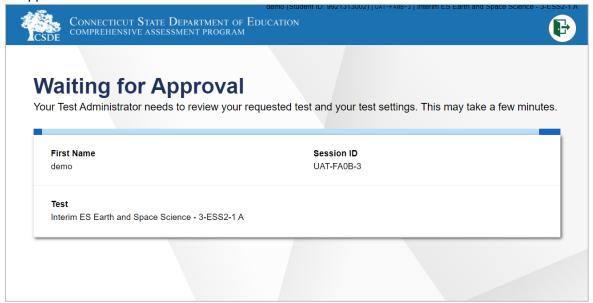
3 After logging in, students will be asked to view and verify their personal information. If their information is correct, they should click the **Yes** button to proceed to the *Your Tests* page.



On the *Your Tests* page, students will see the test that the TA has chosen to proctor. The student should select the test as directed by the TA.

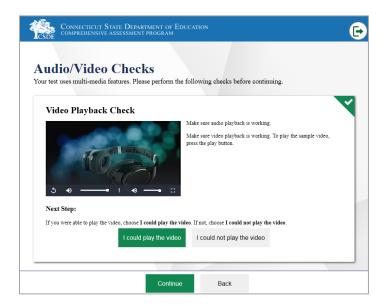


The student will be directed to the *Waiting for Approval* screen. The student should wait for the TA's approval to enter the test session.

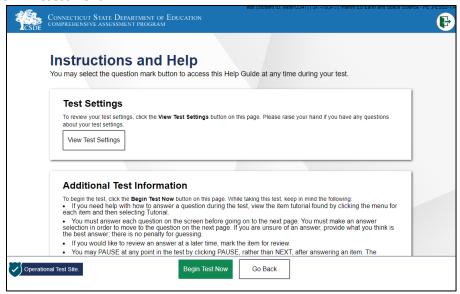


Once the TA has approved the student's entry in the test session, the student will be directed to the *Audio/Video Checks* page. To play the sample video and sound, the student should click the play button. If the student was able to play the video and its sound, the student should click the **I could play the video and sound** button. Then, the student should click the **Continue** button.

Please note that, outside of text-to-speech, there is no audio on the NGSS Interim Assessments. Headphones are not required unless the student needs text-to-speech.



The student will be directed to the *Instructions and Help* page. On this page, the student may review their Test Settings and the Help Guide. When the student is ready to proceed to the NGSS Interim Assessment, the student should click the **Begin Test Now** button. The student will then begin the NGSS Interim Assessment.



# IV. HOW TO PROCTOR AN NGSS INTERIM ASSESSMENT IN THE TEST ADMINISTRATION INTERFACE

Teachers can administer the assessments using the Test Administration Interface. You must have a TIDE account to access any secure online system. If you do not have a TIDE account, please contact your School Test Coordinator or District Test Coordinator.

Instructions for logging in to the Test Administration Interface and using the interface to create and manage test sessions are provided below.

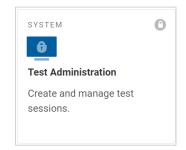


### LOGGING IN TO THE TEST ADMINISTRATION INTERFACE

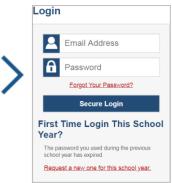
From the Connecticut
Comprehensive Assessment Program
Portal
(<a href="https://ct.portal.cambiumast.com/">https://ct.portal.cambiumast.com/</a>),
select the NGSS Assessments
program card.



Click the **Test Administration** card. The Test Administration Interface login page appears.



Enter your school email address and password in the appropriate fields, then click Secure Login.



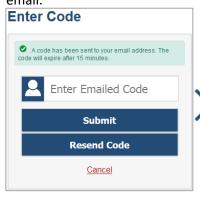
If this is your first time logging in to the Test Administration Interface for the school year, from a new device, or after clearing your browser's cache, the **Enter Code** page appears. If this page does not appear, proceed to Step 5.

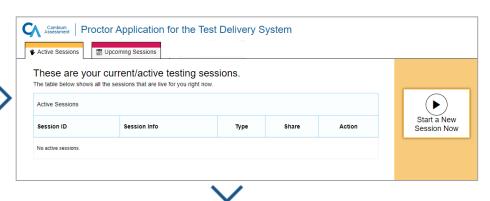
Once you have logged in, the *Test Administration* site appears, displaying the *Active Sessions* page. In addition to allowing teachers to create test sessions for students in the classroom, this site allows teachers to create test sessions for students who are testing at home, and to schedule test

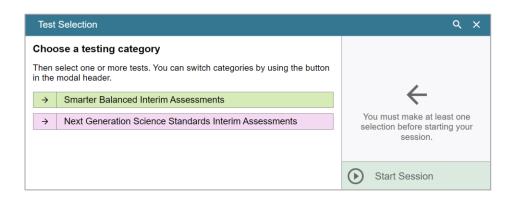
If the **Enter Code** page appears, an authentication code is automatically sent to your email address. You must enter this code in the *Enter Emailed Code* field and click **Submit** within 15 minutes of receiving the code via email.

sessions for students in the classroom to start in the future. Begin a test session.

The *Test Selection* window in the Test Administration Interface appears.



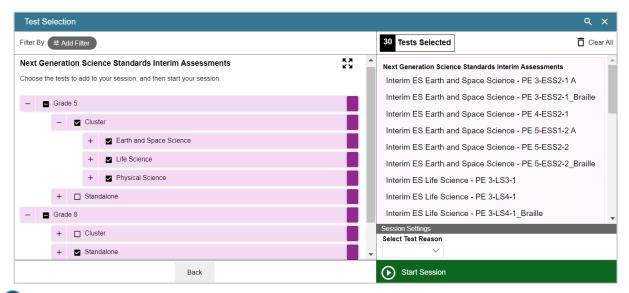




### USING THE TEST ADMINISTRATION INTERFACE TO CREATE AND MANAGE TEST SESSIONS

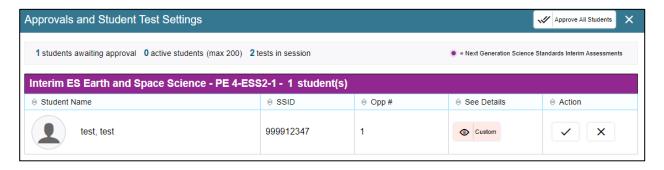
In the Test Selection window, tests are categorized and color-coded by assessment type. Currently, the Test Selection window contains both the Smarter Balanced Interim Assessments and the NGSS Interim Assessments. In the spring, the Smarter Balanced Summative Assessments, the NGSS Summative Assessments, and the Connecticut Alternate Assessments will be available for selection.

To select a test, simply click on the plus sign to expand the test selection and select the test you want to administer. You may select more than one assessment to include in a test session.



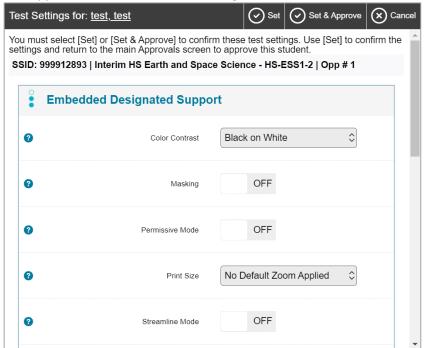
Once you have started the test session and students have logged in, you must approve their test settings before they can access their tests. If you are administering multiple tests, it is very important that you pay close attention to the test name prior to approving to be sure that students have selected the appropriate test. You can do this by clicking **Approve**. A list of students will display, organized by test name. You should review the list to make sure that all students have chosen the correct content area and test. You should also ensure that all of the settings that a student should have are correct.

If no changes are needed, click **Approve All Students** to admit all students to the session. If a student has selected an incorrect test, you must deny that student entry to the test session.

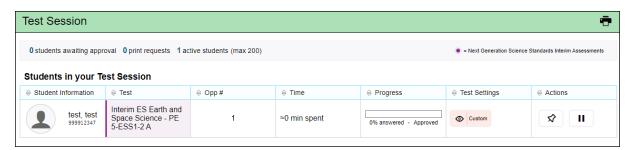


To review and confirm a student's test settings and accommodations before approving the student's entry in the test session, click the eye icon under the **See Details** section for that student. The student's information and test settings appear. Verify that all test settings are correct before the test begins. If the test setting is not correct, please have the school coordinator update the student settings in TIDE before proceeding with the test.

To confirm the selected test settings and return to the list of students awaiting approval, click **Set**. <u>You still must approve the student for testing</u>. To confirm the settings and approve the student for testing, click **Set & Approve**. Once you click **Set & Approve**, the student is permitted in the test session and no longer appears in the Approvals and Student Test Settings window.



Once students have been approved for entry in the test session, you can monitor each student's test progress in the **Test Session** table. This table displays the following information for each student: student name, SSID, test opportunity number, test name, time spent in the test session, student test status, student test settings, and actions.



# V. HOW TO ACCESS NGSS INTERIM ASSESSMENT RESULTS IN THE CENTRALIZED REPORTING SYSTEM

Following the completion of an NGSS Interim Assessment, teachers may see their students' results in the Centralized Reporting System. You must have a TIDE account to access any secure online system. If you do not have a TIDE account, please contact your School Test Coordinator or District Test Coordinator.

Instructions for logging in to and using the Centralized Reporting System to view NGSS Interim Assessment results are included below.



### LOGGING IN TO THE CENTRALIZED REPORTING SYSTEM

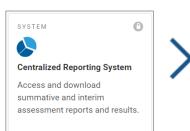
From the Connecticut Comprehensive
Assessment Program Portal
(<a href="https://ct.portal.cambiumast.com/">https://ct.portal.cambiumast.com/</a>), select the

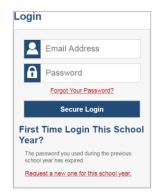
NGSS Assessments program card.

Click the
Centralized
Reporting
System (CRS)
card. The
Centralized
Reporting System
login page
appears.

Enter your school email address and password in the appropriate fields, then click Secure Login.





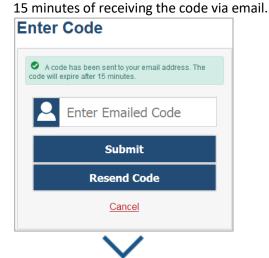


If this is your first time logging in to the CRS for the school year, from a new device, or after clearing your browser's cache, the **Enter Code** page appears. If this page does not appear, proceed to Step 5.

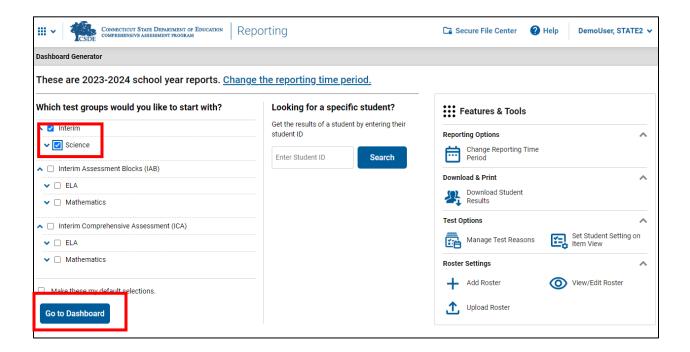
Enter Emailed Code field and click Submit within

proceed to Step 5.

If the **Enter Code** page appears, an authentication code is automatically sent to your email address. You must enter this code in the

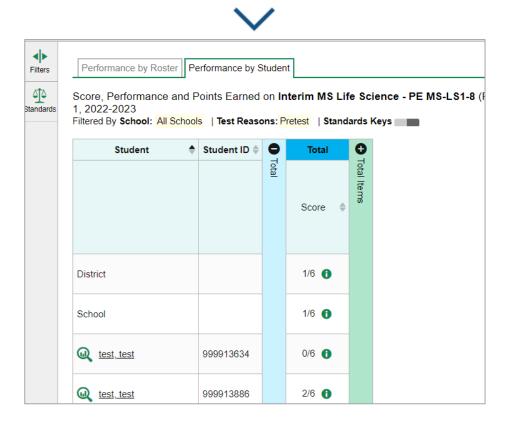


Click on the box next to Science and select Go to Dashboard. The system will then take you to the dashboard for the Science interims.



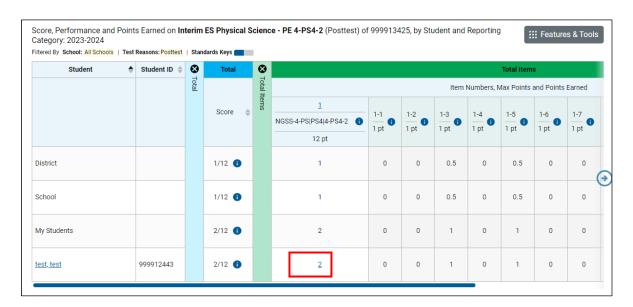
#### USING THE CENTRALIZED REPORTING SYSTEM TO VIEW NGSS INTERIM ASSESSMENT RESULTS

Because no hand scoring is required for the NGSS Interim Assessments, results of the assessments will be available in real time in the Centralized Reporting System as soon as the student submits the test. Teachers can view the scores for the students who were included in a test session that they proctored or for students that they are associated with by a roster. Raw scores and percent correct for the item cluster in an assessment are reported. No scale scores or achievement levels will be made available for these assessments.

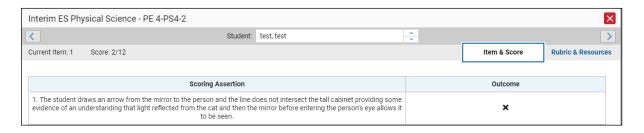


In addition to the raw scores and percent correct, teachers are also able to access the scoring assertions for each item cluster to see how the item cluster was scored. Teachers can also view the student's response to each item in the Centralized Reporting System.

To access the scoring assertions, drill down to the list of students in the CRS and click on the score point that the student received for the item.

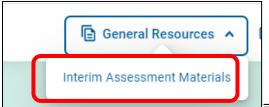


The assertion information for the item will then appear.



For more information about the capabilities of the Centralized Reporting System, please refer to the Centralized Reporting System User Guide on the Connecticut Comprehensive Assessment Program Portal.

In addition, answer keys for the interim assessments are also available in TIDE. To access the answer keys, select **General Resources** in the upper right-hand corner of the TIDE menu bar.



#### **USER SUPPORT**

For additional information and assistance please visit the <u>Connecticut Comprehensive Assessment Program</u> Portal or contact the Connecticut Comprehensive Assessment Program Help Desk.

The Help Desk will be open Monday–Friday from 7:00 a.m. to 7:00 p.m. ET during the summative testing window and Monday–Friday from 7:00 a.m. to 4:00 p.m. ET outside of the summative testing window (except holidays).

Connecticut Comprehensive Assessment Program
Help Desk

Toll-Free Phone Support: 1-844-202-7583

Email Support: cthelpdesk@cambiumassessment.com

Please provide the Help Desk with a detailed description of your problem, as well as the following:

- Test Administrator name and email address
- If the issue pertains to a student, provide the student's SASID and associated district or school— do not provide the student's name
- If the issue pertains to a TIDE user, provide the user's full name and email address
- Any error messages and codes that appeared, if applicable
- Affected test ID and question number, if applicable
- Operating system and browser version information, including version numbers (for example, Windows 7 and Firefox 45 or Mac OS 10.10 and Safari 8)
- Information about your network configuration, if known:
  - Secure browser installation (to individual devices or network)
  - Wired or wireless internet network setup

### Appendix A. Grades 5, 8, and 11 Complete Lists of Interim Assessments

The following shows the number of clusters and standalone items offered on the interim assessments for each performance expectation.

Grade 5	Cluster	Standalone
Grade 3	Discipline - Physical Science	
	DCI - Matter and Its Interaction	
5-PS1-1		X
5-PS1-2	X	1
5-PS1-3	1	X
	X	X
5-PS1-4	1	: :
3-PS2-1	otion and Stability: Forces and	1
3-PS2-2	X 1	
3-PS2-3		X
	X	X
3-PS2-4	X	X
5-PS2-1	1	X
4 DC2 1	DCI - Energy	
4-PS3-1	X	X
4-PS3-2	X	1
4-PS3-3	X	1
4-PS3-4	1	X
5-PS3-1	X	X
	ir Applications in Technologies	for Information Transfer
4-PS4-1	1	X
4-PS4-2	1	1
4-PS4-3	1	Х
	Discipline - Life Science	
	Molecules to Organisms: Struct	ure and Function
3-LS1-1	X	X
4-LS1-2	X	1
4-LS1-1	X	1
5-LS1-1	1	Х
	systems: Interactions, Energy, a	and Dynamics
3-LS2-1	X	Х
5-LS2-1	1	X
	CI - Inheritance and Variation o	f Traits
3-LS3-1	1	Х
3-LS3-2	X	X
	Biological Evolution: Unity and	Diversity
3-LS4-1	1	Х
3-LS4-2	Х	X
3-LS4-3	X	1
3-LS4-4	X	Х
D	iscipline - Earth and Space So	
DCI - Earth's Place In the Universe		
4-ESS1-1	Х	1
5-ESS1-1	Х	X
5-ESS1-2	1	1
	DCI - Earth's Systems	
3-ESS2-1	1	1
3-ESS2-2	X	X
4-ESS2-1	2	X
4-ESS2-2	X	Х
5-ESS2-1	X	X
5-ESS2-2	1	1

DCI - Earth and Human Activity		
3-ESS3-1	X	X
4-ESS3-1	1	1
4-ESS3-2	X	2
5-ESS3-1	X	Х

Grade 8	Cluster	Standalone	
	Discipline - Physical So	cience	
	DCI – Matter and Its Inter		
MS-PS1-1	Х	Х	
MS-PS1-2	X	1	
MS-PS1-3	Х	Х	
MS-PS1-4	1	Х	
MS-PS1-5	1	Х	
MS-PS1-6	Х	1	
	DCI – Matter and Its Inter	ractions	
MS-PS2-1	X	X	
MS-PS2-2	1	X	
MS-PS2-3	X	X	
MS-PS2-4	X	X	
MS-PS2-5	X	X	
	DCI – Matter and Its Inter	ractions	
MS-PS3-1	X	Х	
MS-PS3-2	X	1	
MS-PS3-3	2	X	
MS-PS3-4	1	X	
MS-PS3-5	X	1	
145 054 4	DCI - Matter and Its Inter		
MS-PS4-1	1	X	
MS-PS4-2 MS-PS4-3	X	X	
IVI5-P54-3	X Discipline - Life Scie	X	
DCI - Fro	m Molecules to Organisms: Str		
MS-LS1-1	X	X	
MS-LS1-2	X	1	
MS-LS1-3	1	X	
MS-LS1-4	X	1	
MS-LS1-5	X	X	
MS-LS1-6	X	X	
MS-LS1-7	1	X	
MS-LS1-8	1	X	
	om Molecules to Organisms: Str		
MS-LS2-1	Х	Х	
MS-LS2-2	1	X	
MS-LS2-3	Х	Х	
MS-LS2-4	Х	1	
MS-LS2-5	X	1	
	DCI - From Molecules to Organisms: Structures and Processes		
MS-LS3-1	1	Х	
MS-LS3-2	1	Х	
	m Molecules to Organisms: Str	uctures and Processes	
MS-LS4-1	Х	2	
MS-LS4-2	X	Х	
MS-LS4-3	Х	Х	
MS-LS4-4	1	Х	
MS-LS4-5	1	X	
MS-LS4-6	1	X	

Discipline - Earth and Space Science			
	DCI - Earth's Place in the	Universe	
MS-ESS1-1	X	X	
MS-ESS1-2	1	X	
MS-ESS1-3	X	1	
MS-ESS1-4	1	X	
	DCI - Earth's Place in the Universe		
MS-ESS2-1	1	X	
MS-ESS2-2	1	X	
MS-ESS2-3	X	1	
MS-ESS2-4	X	X	
MS-ESS2-5	1	X	
MS-ESS2-6	1	X	
DCI - Earth's Place In the Universe			
MS-ESS3-1	X	X	
MS-ESS3-2	1	X	
MS-ESS3-3	1	X	
MS-ESS3-4	X	1	
MS-ESS3-5	X	1	

Grade 11	Cluster	Standalone
	Discipline - Physical S	cience
	DCI – Matter and Its Inte	
HS-PS1-1	1	Х
HS-PS1-2	1	Х
HS-PS1-3	Х	Х
HS-PS1-4	Х	Х
HS-PS1-5	Х	1
HS-PS1-6	Х	1
HS-PS1-7	Х	Х
HS-PS1-8	Х	Х
	DCI – Matter and Its Inte	ractions
HS-PS2-1	Х	Х
HS-PS2-2	1	X
HS-PS2-3	Х	X
HS-PS2-4	Х	Х
HS-PS2-5	1	Х
HS-PS2-6	Х	Х
	DCI – Matter and Its Inte	ractions
HS-PS3-1	1	X
HS-PS3-2	Х	Х
HS-PS3-3	X	X
HS-PS3-4	X	X
HS-PS3-5	Х	1
	DCI – Matter and Its Inte	ractions
HS-PS4-1	1	X
HS-PS4-2	Х	Х
HS-PS4-3	X	X
HS-PS4-4	X	X
HS-PS4-5	X	X
	Discipline - Life Scie	
	m Molecules to Organisms: Str	ructures and Processes
HS-LS1-1	X	1
HS-LS1-2	1	X
HS-LS1-3	1	X
HS-LS1-4	X	X
HS-LS1-5	Х	X
HS-LS1-6	Х	1
HS-LS1-7	X	X
	om Molecules to Organisms: Str	
HS-LS2-1	Х	1
HS-LS2-2	1	X
HS-LS2-3	Х	Х
HS-LS2-4	Х	1
HS-LS2-5	Х	X
HS-LS2-6	1	X
HS-LS2-7	X	1
HS-LS2-8	X	X
	m Molecules to Organisms: Str	ructures and Processes
HS-LS3-1	X	X
HS-LS3-2	1	X

HS-LS3-3	Х	1	
DCI - Fro	m Molecules to Organisms: St	ructures and Processes	
HS-LS4-1	1	1	
HS-LS4-2	1	1	
HS-LS4-3	Х	Х	
HS-LS4-4	X	X	
HS-LS4-5	Х	1	
HS-LS4-6	Х	X	
	Discipline - Earth and Spa	ice Science	
	DCI - Earth's Place in the		
HS-ESS1-1	Х	X	
HS-ESS1-2	1	X	
HS-ESS1-3	1	X	
HS-ESS1-4	1	X	
HS-ESS1-5	X	X	
HS-ESS1-6	1	1	
	DCI - Earth's Place in the Universe		
HS-ESS2-1	X	X	
HS-ESS2-2	X	X	
HS-ESS2-3	1	X	
HS-ESS2-4	1	X	
HS-ESS2-5	X	X	
HS-ESS2-6	Х	1	
HS-ESS2-7	1	X	
DCI - Earth's Place In the Universe			
HS-ESS3-1	Х	X	
HS-ESS3-2	X	X	
HS-ESS3-3	1	X	
HS-ESS3-4	2	X	
HS-ESS3-5	1	X	
HS-ESS3-6	Χ	X	