Thank you for attending this webinar on the AIRWays Reporting System. During this webinar we will show you how to access NGSA scores at the district, school, and roster level.
RIDE Next Generation Science Assessment (NGSA)

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Rhode Island Transition to the Next Generation Science Assessment (NGSA)

- **2013**
  - Adoption of the Next Generation Science Standards

- **2017**
  - Last administration of the NECAP Science assessment

- **2018**
  - Field test of the Next Generation Science Assessment

- **2019**
  - First administration of the Next Generation Science Assessment
Talking About Our Results: Why Assess NGSA?

- The NGSA helps us understand how all our students are performing in Science by assessing their knowledge of our state standards, the Next Generation Science Standards (NGSS).
- When current students graduate from high school, more jobs will require skills in science, technology, engineering, and mathematics (STEM) than in the past.
- The NGSS provide a strong science education that equips students with the ability to think critically, analyze information, and solve complex problems — the skills needed to pursue opportunities within and beyond STEM fields.
- We can successfully prepare students for college, careers and citizenship when we set the right expectations and goals and monitor student progress towards them.
Description of the Next Generation Science Assessment (NGSA) Test Design

• Assess students’ understanding of the Next Generation Science Standards in grades 5, 8, and 11.
• NGSA assessments assess life sciences, physical sciences, and earth space sciences.
• Computer-based test that includes item clusters which are similar to performance task and stand-alone items
• All items ask students to use science and engineering practices and apply their understanding of disciplinary core ideas and crosscutting concepts to make sense out of real-world phenomena
Next Generation Science Assessment (NGSA) Performance Levels

• The NGSA uses four performance levels to describe how well students meet the expectations for their grade level.
• Meeting Expectations means that students are able to demonstrate grade level expectations while Exceeding Expectations means that students are showing mastery of the grade level expectations.

<table>
<thead>
<tr>
<th>Grades</th>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>1-37</td>
<td>38-59</td>
<td>60-71</td>
<td>72-120</td>
</tr>
<tr>
<td>8</td>
<td>1-37</td>
<td>38-59</td>
<td>60-74</td>
<td>75-120</td>
</tr>
<tr>
<td>11</td>
<td>1-35</td>
<td>36-59</td>
<td>60-70</td>
<td>71-120</td>
</tr>
</tbody>
</table>
Next Generation Science Assessment (NGSA) Performance Levels

- Science has three domains for which students receive information about their performance: Life Sciences, Physical Sciences, and Earth and Space Sciences.
- This chart shows how close to mastery your student is in each area, according to how he or she performed on this assessment.
- The description provides information about the various grade-specific topics or skills where your child is succeeding and where he or she may need additional support to enhance specific skills needed to master grade-level standards.

<table>
<thead>
<tr>
<th>How Did Your Student Perform in the Different Areas of Science?</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Life Sciences</strong></td>
</tr>
<tr>
<td>Below Mastery</td>
</tr>
<tr>
<td>Your student can sometimes avoid life cycles and movement of matter in ecosystems; use evidence to explain that organisms need structures to live; and interpret data to show that individuals inherit traits, populations have many different traits, and some organisms thrive in specific environments.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Physical Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Below Mastery</td>
</tr>
<tr>
<td>Your student can sometimes conduct experiments to explain the structure of matter, signs of chemical change, and how forces affect the motion of objects; use evidence to explain speed and energy transfers and model particles of matter and light waves.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Earth and Space Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Below Mastery</td>
</tr>
<tr>
<td>Your student can sometimes display data to show the results of Earth's movements around the sun, gravity, how light affects us on Earth; model interactions of the geosphere, biosphere, atmosphere, and water; and use evidence to analyze solutions to hazards caused by weather.</td>
</tr>
</tbody>
</table>
Next Generation Science Assessment (NGSA) Reporting Timelines and Resources

- **EMBARGOED results** for the NGSA were released to district and school administrators via the confidential Rhode Island Assessment Data Portal (RI-ADP) and new AIRWays Reporting System on **Tuesday, November 12**.

- The **PUBLIC release** of results will be on **Thursday, November 14** through the public Rhode Island Assessment Data Portal, along with supporting materials (e.g., results presentation, individual student report shells, reporting system guidance, family guides) posted at [www.ride.ri.gov/Assessment-Results](http://www.ride.ri.gov/Assessment-Results).

- The next webinar in our State Assessment Results Webinar Series for district and school administrators and content area teachers will focus on the NGSA: state-level results, the assessment, and helpful resources. Educators are invited to register to attend this NGSA webinar on **Tuesday, November 26** from 10:00 a.m. to 11:00 a.m.

- If you have any questions about the release or webinars, please email assessment@ride.ri.gov.
The AIRWays Reporting System is designed with a user interface that is intuitive, user-friendly, accurate, scalable, accessible, and easily digestible. With the intent to provide the clearest picture with the fewest number of clicks, the system displays state, district, school, teacher, class, and student level data in tabular and graphical format. It is designed to handle lots of data and it will be continuously updated with more features over time. The system is accessible on different devices and by different users at the teacher, school, district, and state level. Users can sort and filter the data in various ways and can create custom groups to generate timely reports for intervention groups or incoming classes. The dashboard is the homepage for all users. A district user dashboard is demonstrated here.
<table>
<thead>
<tr>
<th>Objectives in Order of Presentation</th>
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<tbody>
<tr>
<td><strong>After viewing this presentation, you will understand how to</strong></td>
</tr>
<tr>
<td>▪ Navigate AIRWays Reporting for the Science Assessment</td>
</tr>
<tr>
<td>▪ See your results, sort them for analysis, expand them to view disciplines and measures, and quickly compare results at the state, district, and school level.</td>
</tr>
<tr>
<td>▪ Set Up Reports That Make Sense for Your Specific Needs</td>
</tr>
<tr>
<td>▪ Set preferences and filters.</td>
</tr>
<tr>
<td>▪ Use demographic sub-groups.</td>
</tr>
<tr>
<td>▪ The Student Portfolio Report</td>
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<tr>
<td>▪ Generate Individual Student Reports (ISRs) and Student Data Files</td>
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<tr>
<td>▪ Print and Export Any Data You Can View in Reports</td>
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</tbody>
</table>

This webinar focuses on four main objectives: navigating the test results pages to display data with a few clicks, using the settings and filters to customize your reports and eliminate irrelevant data, and printing ISRs and exporting Student Data Files.
To access the AIRWays Reporting System click on the Test Administration Guidance tab of the Portal homepage. Select the AIRWays Reporting card on the page that opens. Log-in as you would to your TIDE account.
Dashboard Layouts

Teacher Dashboard—all test results for all of the teacher’s students in two separate tables.

School & District Dashboard—all test results for all of the students in the school, or all schools in the district, in one table.

The AIRWays Reporting System features different dashboard lay-outs. The teacher dashboard displays two stacked tables, one for all assessments on top, and beneath it, a table of all the teacher’s students. School personnel and district users will see one table of all assessments.

Sorting, setting preferences, filtering, and breaking down demographic groups are important functions for all users so that test data applies specifically to their needs. The graphic objects that display on the dashboard page are used to make these choices. It only takes a few clicks to create a highly customized report, no matter the test type or the level of the user.
Dashboard Features: Table Headings

Users can see overall test results directly from the dashboard page. Each table is headed by an informative title, listing the report type, the school year and any filters chosen by the user. Tests associated with the user will be listed under Assessment Name. Test Reason lists the season of administration for the NGSA. Student Count is the number of students who took each test. Notice the sorting arrows located to the right of most column headings. Sorting allows the user quick analysis of the test results.

The next two columns, Average Score and Performance Distribution, reflect two scoring methods used by the various tests. The Average Score column lists a raw or scale numeric score, and the Performance Distribution column shows the student’s level of achievement based on mastery of the academic standards assessed by the test. For an explanation of the scores and distribution levels, click the information button in the table. A quick sort of the Average Score column will place the tests with the highest scores at the top of the table, or those with the lowest scores at the top. Test administration dates are reported in the last column as Date Last Taken.

This is a teacher dashboard and features a second table labeled My
**Students.** This table contains a list of the teacher’s students by **Student Name**, their **Student ID** numbers, the **Most Recent Assessment** taken, and the **Date** taken.

This slide also shows the **Filters** panel, to the left of the tables. It is expanded to show the options available to the user. Filter options will be discussed later in the presentation. It’s helpful to note the many graphic objects that, when clicked, will bring up test results and other information.
Test results and other data lie just under the surface of the dashboard page. Buttons, arrows, test names, and student names are all “clickable.” This slide shows the numerous clickable objects on the dashboard homepage. These buttons include, but are not limited to: the Inbox, My Settings, the Help feature, the Student Search box, the Print button, the Student Results Generator, and the Filters panel (by Rosters, Test Group, and Test Reasons). These filters and how to apply them will be discussed later in the presentation.

In the My Assessments table, included with the name of an assessment are the Export button, the magnifying glass button, and a set of expansion arrows that display state-, district-, and school-level results. This aggregate comparison view is shown on the next slide. Click on the assessment name to bring up the Performance on Test page.

For teachers: In the My Students table, teachers can click on a Student Name OR the magnifying glass next to the name to navigate to the Student Portfolio results page.
Both tables can be set to size preferences. Change the number of **rows per page**, as desired. Use the forward and back **arrows** to move to different pages of the table.
Compare YOUR Results to State, District, or School Level

Typically, one of the first things a user is looking for is a comparison of their results to school-, district-, and state-level results. Click the expansion arrows to the right of the Assessment Name. (You can also click on the assessment name and the comparison rows will show on the test results page.)

This slide shows the school-user dashboard results for a **Grade 5 Science** assessment. The students in the school averaged a score of 56, well above the district average of 44 and the state average of 42. The user can also see a breakdown of the performance distribution in the color coded bar to the right of the score. The percentage of students in each level is listed below each colored pattern in the bar. Info buttons display the legends for the scoring measures.
Navigate the NGSA Results Pages
Clicking an assessment name (or on the magnifying glass) will bring up the report page. This image shows a school roster report for the Grade 5 ELA Science assessment. The page navigation trail is shown in a gray bar at the very top of every test results page. It reads Dashboard > School Performance on Test. District users will see the words “District Performance on Test” and teachers will see the words “My Students Performance on Test.”

There are two tabs below the trail: the Performance by Roster and Performance by Student tabs. Users can toggle between the two depending on the data they wish to see. The Performance by Roster tab is open on this image, showing the test results organized by roster. Sorting can be used in ascending or descending order for Average Scale Score in each of the reporting categories. This page shows all the rosters in the school, each identified by teacher.

Other areas of interest on the page are as follows:

1. Expanding the + arrows in the column headings shows test results in the test disciplines.
2. The state, district, and school results also display above the rosters for quick comparison to the roster results. A teacher will see an additional row of results for all their students, as well.
3. Click on the name of the roster or the magnifying glass to see a list of student results. Sorting will be available from the student test results page.
Adaptive Science assessments generate a unique report, notable for its performance expectations and the measurement symbols. This image shows the School Performance on the Grade 5 Science test.

The expandable columns on the test results table contain information organized by **Discipline**. The Science assessment includes Earth and Space Sciences, Life Sciences, and Physical Sciences. Each discipline is broken down into **Performance Expectations**. Results for each performance expectation are reported using two **Measurement Columns: Weak or Strong?** and **Proficient?**

Each performance expectation is matched with an information button that displays the specific learning target. The legend for the symbols used in the two measurement sub-columns are displayed on the next slide.
The **Proficient?** column displays symbols indicating the level of proficiency the group of students have attained in the discipline.

The **Weak or Strong?** column helps identify strengths and weaknesses in different performance expectations within the discipline so teachers can focus instruction on very specific areas where improvement is needed. This column displays symbols indicating how students’ average performance on the expectations compares with their average performance on the overall test. Note that these symbols capture only relative performance and do not indicate proficiency.
The information button to the right of a performance expectation displays specifics related to the expectation.
Set Up Reports That Make Sense For Your Specific Needs
To drill down to the most relevant results and eliminate unnecessary details, teachers and other users should take the time to set their preferences by using the options in the My Settings drop-down menu. The options in this list will vary, depending on user role.

Teachers will typically utilize these two main settings: Select Tests to Display, and Change Reporting Time Period.

The Select Tests to Display allows teachers to reduce the amount of data shown in their tables. Once a teacher has selected certain tests to display, these choices are reflected when a school, district, or state user elects to mirror the teacher’s choices in their data displays. This feature allows all users to bypass test data that does not suit their specific needs.

The Change Reporting Time Period allows a user to see results from a previous school year. These two options are explained in the following slides.

Teachers also have options related to their class rosters. They can Add, Upload, View and Edit rosters.
School and district users can narrow down their data results by utilizing My Settings preferences, as well. Popular options include: Manage Test Reasons, Select Roster Preferences, Change Reporting Time Period, Add Roster, View/Edit Rosters, and Upload Rosters.
The **Select Tests to Display** setting allows teachers to reduce the amount of data shown in their tables. Once a teacher has selected certain tests to display and excluded others, these choices can be mirrored in school, district, and state user results. The state, district, or school user sets the **Select Roster Preferences** to activate this feature. The default setting for school and district users under Select Roster Preferences is All Rosters. This option displays ALL rosters for ALL teachers and schools, depending on the user role. These two tools allow all users to bypass test data that does not suit their specific needs.
All test results currently reported in AIRWays are for the 2018-2019 administration. There is no option to change the school year at this time but there will be during future administrations.

It’s helpful to change the calendar date in the second box to a date near the end of the 2018-2019 testing window. Doing this helps ensure that all of your students scores from last year appear in your reports.
Users, depending on their role, can add, view, edit, export, and upload rosters using the **Roster Manager** pop-up windows. This mirrors the roster management functionality in TIDE. District administrators and school test coordinators are able to build groups and assign students to them, allowing them to customize and update classroom rosters. Managing classes using these features is a great way to organize students, allow teachers to view their students’ performance, and generate information on incoming classes.
District administrators and school coordinators will want to create a current 2019-2020 roster for any teacher who would like to see their students’ test results from last year. For example, a grade 6 teacher with a class of students who took the grade 5 NGSA last year will want quick access to those scores.

Even though the students tested in 2018-2019, you are creating the roster in 2019-2020 because the student-teacher relationship exists now. You will select the district and school for which the students are currently associated.
You will want to create rosters “in the past” if you have a teacher who was associated with students last year and would like to see how they performed on the test. For example, a grade 5 teacher who taught a group of students last year when they took the NGSA would like to see how they performed.

You are creating the roster in 2018-2019 because that is when the teacher student relationship existed. You will select the district and school the student was associated with at that time.
A second feature helpful in drilling down to specific data is the Filters panel on the left margin of the dashboard and test results pages. Clicking on any of the graphic buttons in the panel will expand to show the selection options. The available buttons vary, depending on the User and the Test Performance page.

To expand the selections for each option, click the corresponding graphic button. Check the desired selections and click the Apply button. The table shows the filter buttons that appear on the various pages in AIRWays Reporting.

This table provides a quick overview of each of the filter options. These options are discussed throughout the presentation.
There is a setup tool that allows users to break down data by demographic sub-group. Use the **breakdown** button at the upper right corner to compare performance between different demographic sub-groups. This tool is helpful in identifying groups that need more instructional support.

From any test results page for multiple students click the breakdown button. The **Breakdown Attributes** window opens. Select up to three student demographic categories.
Demographic columns appear on the test results page, one for each category chosen from the attributes menu. The table heading changes to reflect the selections.

To the left of each column is a View Details button for that row of information. A row appears for each possible combination of demographic groups in the selected categories. If there are no students in a particular combination, no row appears for that combination.

Some sorting can be done with the category columns, the student count, the test completion rate, and average scale score.
Test results for each demographic sub-group can be seen by clicking the **View Details** button to the left of each row. A window will open, displaying detailed results for that combination. This report table is now laid out the same way as the original report. At the top of the pop-up report table are **filter menus** for each demographic category chosen by the user. Combinations may be changed by using the filter **arrows** and clicking **Apply**. The new combination will be displayed.

Users can get an in-depth looks at specific groups of students and their performance on specific tests. It’s helpful to sort by Test Completion Rate or by Average Scale Score.
Ways to Use the Student Portfolio Report

1. Compare a student’s results with state-, district-, school-, and teacher-level data
2. Sort results to see best scores and the most recent test scores
3. Generate and print an ISR or a Student Data File

For the times when a user needs to focus on an individual student and their test performance, the AIRWays Reporting System features the Student Portfolio Report. The report is designed so that users can quickly:

1. Compare a student’s results with state-, district-, school-, and teacher-level data
2. Sort results to see best scores and the most recent test scores
3. Generate and print an ISR or a Student Data File

Teachers have a “fast pass” to the Student Portfolio Report. From their dashboard they can click on the magnifying glass or the student name in the “My Student’s table and the student portfolio report will immediately display.

Other users access the report from any page of test results by copying a student identification number into the student search box, located in the gray navigation trail at the top of the page, and clicking the search button.
Individual Student Reports (ISRs) and Student Data Files
An Individual Student Report (ISR) shows a student’s overall performance on a test plus a breakdown of performance by topic. A user can select any combination of test reasons, assessments, and students in order to generate and export multiple ISRs at once.

The ISR Generator can be used to print large numbers of ISRs to be shared with students and their parents. It can be accessed from any page of test results.

The steps to generate an ISR are listed here:

1. Navigate to the dashboard, the Student Portfolio page, or any set of test results.
2. Click the Student Results Generator button in the upper-right corner of the page. The **Student Results Generator** window opens. The image on the right shows the Student Results Generator pop-up window from a School Performance on a Test page, listing several demo rosters, with student lists as a drop-down option.
3. Click the **Report Type**, ISR.
4. Starting at the left margin, click the section bars to expand the colored sections. Within each section, you must make certain selections: **Select Test Reasons**, **Select Assessments**, and **Select Students**. The image shows the Select Students tab expanded. A list of teacher rosters has been selected by a school administrator. District users will see a list of schools instead of classes.

5. Choose the **Report Format** and the PDF type. In December 2019, users may also choose a print language for the ISR. Available languages will vary according to state specifics.

6. Click the **Generate** button, and the new ISR(s) will be stored in the **Inbox**, available for downloading and printing.

A sample ISR is shown on the next slide.
This is a sample ISR for the NGSS Grade 11 Science test, given in 2018-2019. The **Score** table and the state-, district-, and school-level aggregates are displayed in the top section of the simple report.

In the bottom section is a table of **Disciplines** that reflect the student’s performance in each area of the test. The topics for this test are Earth and Space Science, Life Science, and Physical Science.
Teachers and other users can choose to generate and print the **Student Data File**. This file includes the **SAME** information that the ISR details, but the report format is either a Microsoft Excel workbook file, a CSV file, or a text file. Printing reports in these formats will allow the user to use the features of Excel and word processing software to organize the data with a high degree of utility.

The setup instructions for a Student Data File are the same as for an ISR, except for the selections on the **Report Type** and **Print Options** panel on the right side of the Student Results Generator page.

This image shows the pop-up window that displays from a School Performance on Test results page. Rosters are identified by teacher name and the students display below, when each roster is dropped down.
Print and Export Any Data You Can View in Your Reports
Users can print or export any data from AIRWays Reporting. Use the **print** button (upper-right corner) to create a quick hard copy of any report or results displayed on the results page. The **export** button (to the left of each assessment on the dashboard) generates a detailed report of any specific test. Users may choose from a PDF file (a picture) or a CSV file (an Excel spreadsheet). The file will generate in the user’s Inbox and can be downloaded from there for up to 31 days.

Different options are available depending on the report being viewed.
This slide shows the print choices for a student portfolio report for the Grade 5 Science test. The table shows the discipline and total results for the 22 students on the roster. Users can choose a simple print or can save the report as a PDF or a CSV file. Clicking Confirm will bring up the printing page, or if PDF or CSV is chosen, the user’s Inbox will open.
Typically, the **Inbox** will open automatically after making report selections based on the choices available. Click on the name of the report to open it to a browser tab. Print as usual.

All ordered reports appear in a user’s Inbox. The Inbox button is found in the banner. The Inbox stores any PDF or CSV versions of reports, any file exports created in TIDE as well as secure files uploaded by administrative users. These files automatically expire after a designated period unless archived.

The **Archived** button displays files that have been archived.

To filter the files by keyword, enter a search term in the text box above the list of files. The table allows users to download, archive, and delete downloaded files. To download a file, click the file name in the **Name** column. To archive a file, click the file box icon in the **Actions** column. To delete a file, click the trashcan icon in the **Actions** column.

The **Days Available** column displays how many days the report will be
available for download before expiration.
This slide shows the export choices for a district user who has clicked the **Export Assessment Data** button for the Grade 5 Science test. The user must choose a type of report for all the schools in the district or specify a specific school from the drop-down menu. Files can be exported as PDF or CSV. Clicking the green button, Export Assessment Data, brings up a **Confirmation Page** that shows the name of the assessment, the type of report chosen, and the type of file chosen. Click **Yes**. The user’s Inbox will immediately open and display the report at the top of the inbox.
How Can I Get More Information?

You can contact the Help Desk for assistance with any technical issues you encounter. When contacting the Help Desk, please be ready to provide:

▪ Any error messages that are appearing (including codes)
▪ Your operating system and browser information
▪ Your network configuration information
▪ Your contact information for follow-up by phone or email
▪ Any other relevant information, such as test names or content areas, student IDs, session IDs, and search criteria

For test administration or policy issues, please contact your District Test Coordinator.
▪ You can find more announcements on your state’s assessment portal.

We hope this webinar has given you a solid, basic understanding of the enhanced features of the AIRWays Reporting System. Watch for future announcements on your state’s assessment portal page.
Thank You!

**Rhode Island Next Generation Science Assessment Portal**
http://ri.portal.airast.org

**Rhode Island Next Generation Science Assessment Help Desk**
rihelpdesk@air.org
1.866.757.9437

For detailed information please go to the RINGSA Portal or contact your Help Desk. Thank you for participating in this webinar.