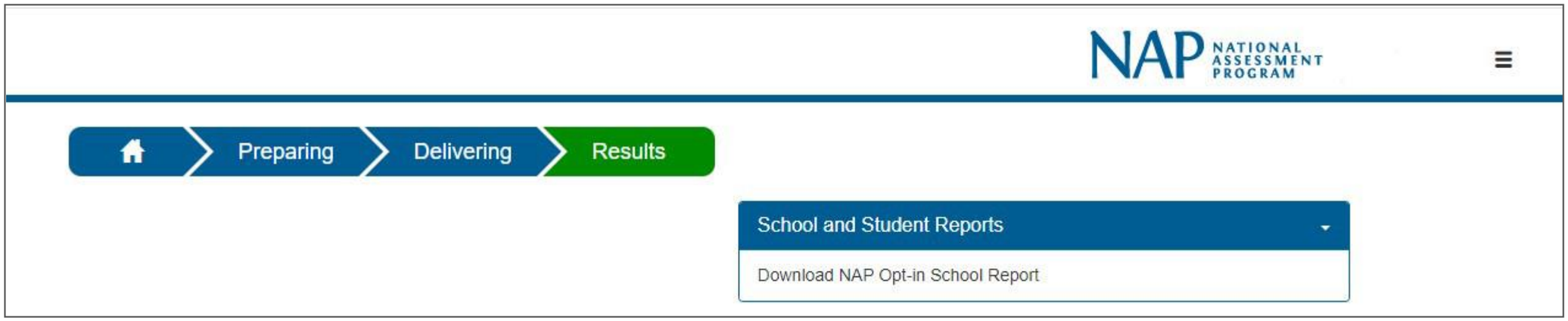
NAP Opt-in School Report Guide

The first NAP Opt-in assessment was made available to all Australian schools between May 6 and May 31, 2024. Close to 200 schools participated in the Science Literacy assessments with their year 6 and/or year 10 students. All extended student responses have been marked by trained Science teachers outside the delivery platform.

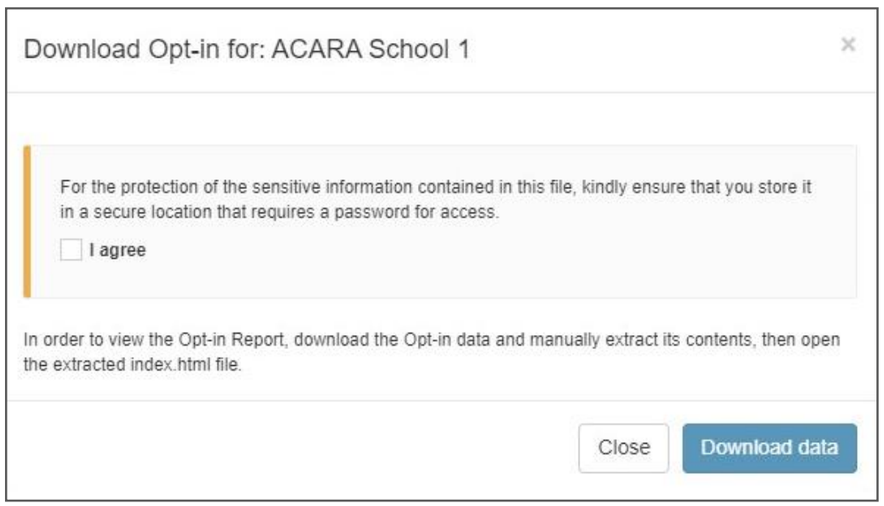
The NAP Opt-in School Report provides information on student performance in your school compared to the national results published in the NAP Science Literacy 2023 public report (Link). It aims to inform school teaching and learning programs and help teachers to identify areas of strength and weakness in the learning areas that are mapped to the Australian Curriculum.

Accessing NAP Opt-in School Report

1. Please go to assessform website **https://www.assessform.edu.au/**
2. Select the 'NAP Opt-in' tile
3. In the 'Results' phase, click on 'Download NAP Opt-in School Report'



4. Once you have agreed to the condition on the screen, click on 'Download data' to continue



How to interpret the **NAP Opt-in School Report**

This report has 3 components:

1. The **Items report** shows how your school performed on each test item, relative to national results.

2. The **Class report** shows how each student performed and their level of proficiency.

3. The **School summary report** shows how your school performed overall.

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Items report
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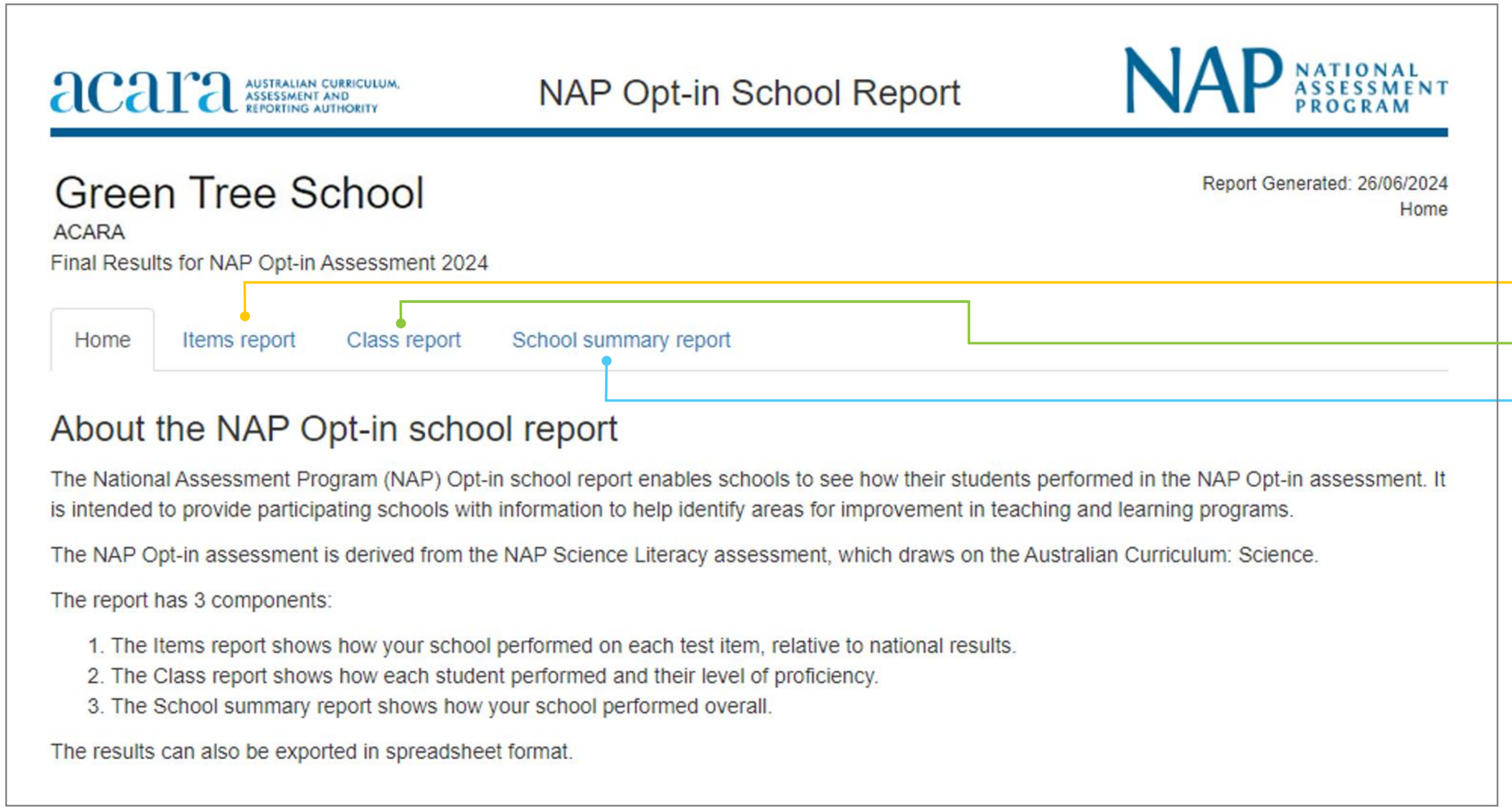
School summary report



Items report

Class report

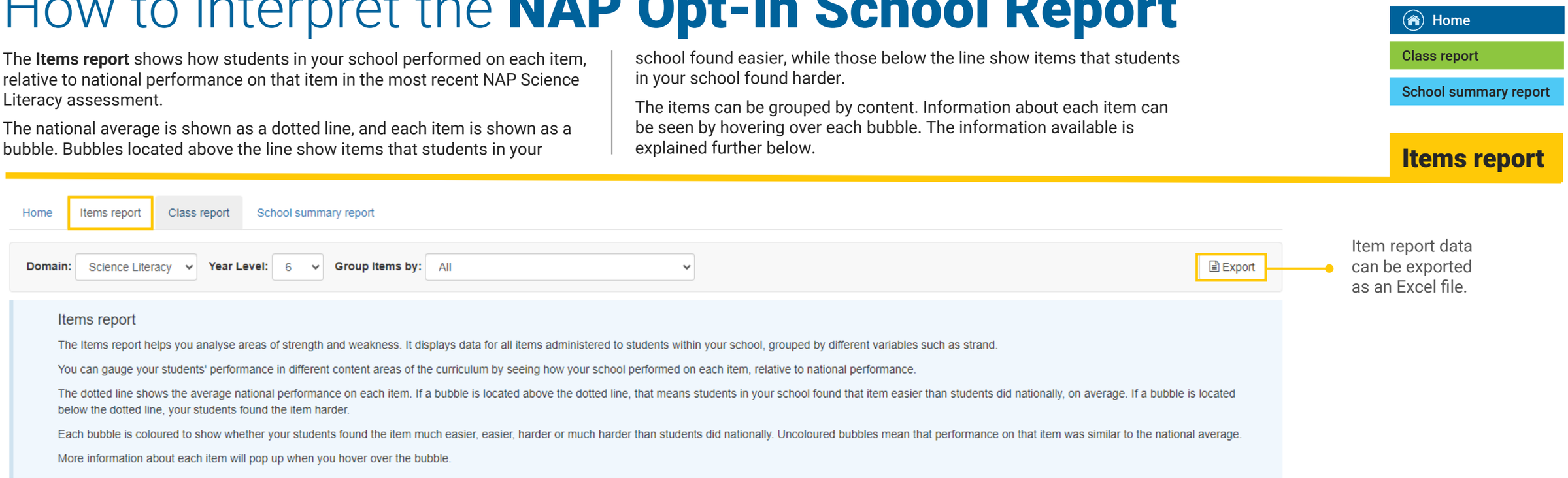
School summary report

How to interpret the **NAP Opt-in School Report**

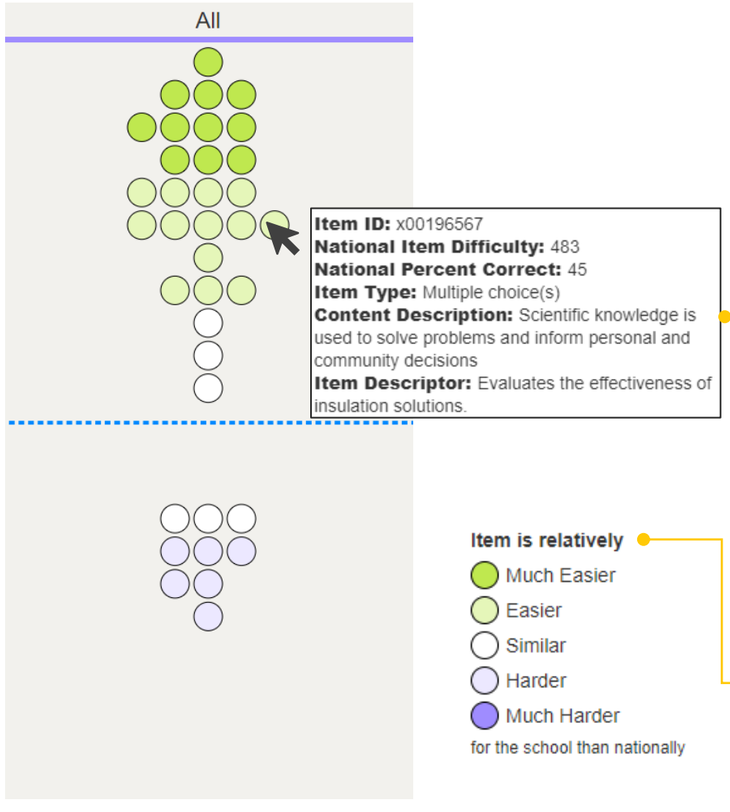
The **Items report** shows how students in your school performed on each item, relative to national performance on that item in the most recent NAP Science Literacy assessment.

The national average is shown as a dotted line, and each item is shown as a bubble. Bubbles located above the line show items that students in your school found easier, while those below the line show items that students in your school found harder.

The items can be grouped by content. Information about each item can be seen by hovering over each bubble. The information available is explained further below.



Item report data can be exported as an Excel file.



Item ID	A unique ID for the test item.
National Item Difficulty	The difficulty is reported against the NAP Science Literacy scale, which ranges from approximately 0 to 1200. The higher the number, the harder the item.
National Percent Correct	The percentage of students who responded to the question correctly in the most recent NAP Science Literacy assessment.
Item Type	One of 3 item formats including: • multiple-choice(s): students select options from a list. • interactive response: students interact via more complex mechanisms such as drag and drop, selection of hotspots or drop-downs, or checking options in a grid. • constructed response: students type their response as a number, word or sentence.

Content Description	The Australian Curriculum: Science content description to which the item is mapped to.
Group items by	• **Strand** – the Australian Curriculum: Science strand which the item is mapped to. • **Sub-strand** – the Australian Curriculum: Science sub-strand which the item is mapped to.
Item Descriptor	A brief description of the skills and understandings required to answer the item correctly.

Colouring of items

A comparison between the school percent correct and National Percent Correct figures. Differences are categorised into the following 5 groups:

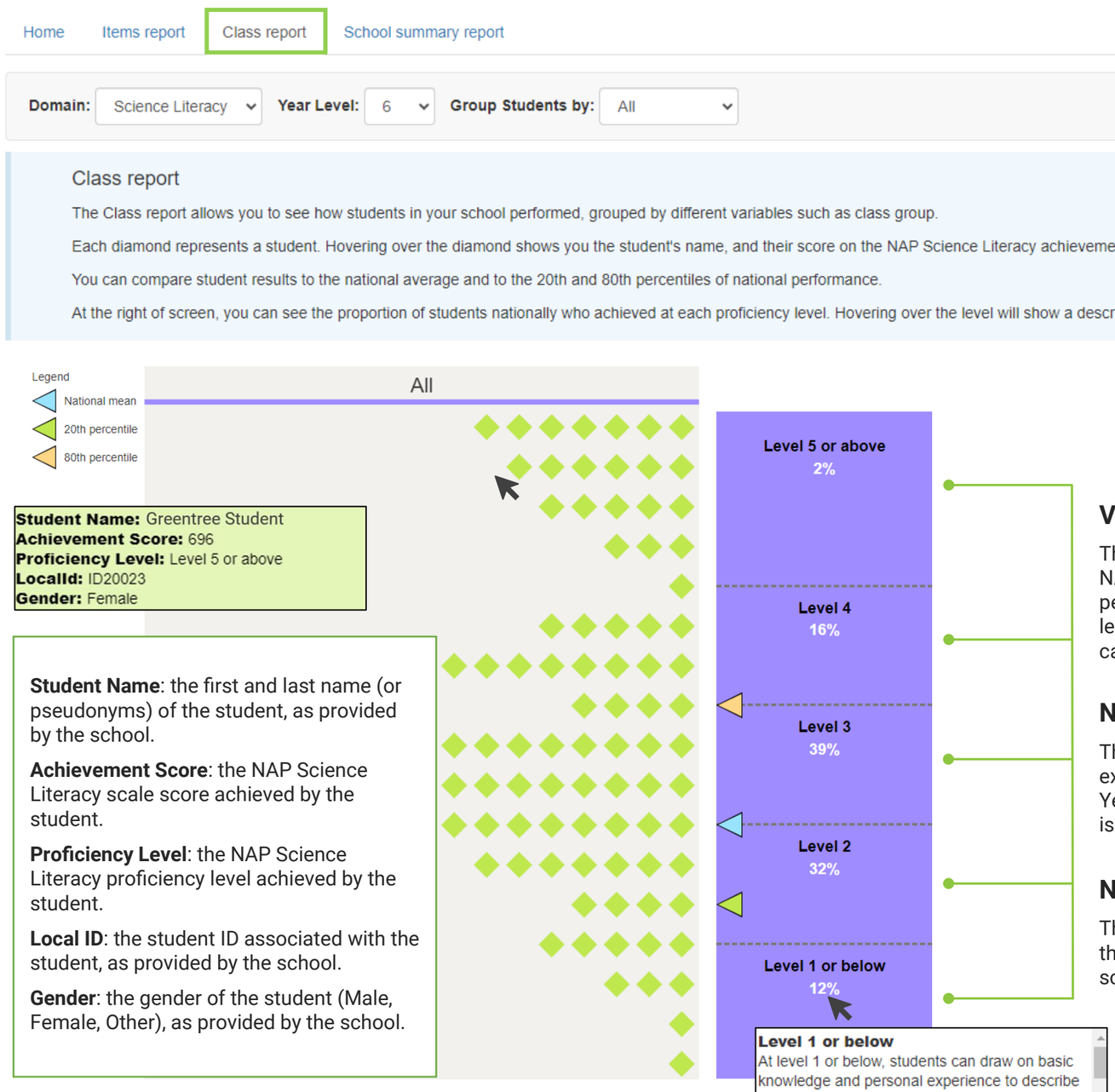
- **Much easier**: students in your school found this question much easier (by more than 20 percentage points) than the national cohort.
- **Easier**: students in your school found this question easier (by more than 10 percentage points) than the national cohort.
- **Similar**: students in your school performed similarly to the national cohort on this item.
- **Harder**: students in your school found this question harder (by more than 10 percentage points) than the national cohort.
- **Much harder**: students in your school found this question much harder (by more than 20 percentage points) than the national cohort.

How to interpret the **NAP Opt-in School Report**

The **Class report** shows how students in your school performed in the NAP Science Literacy Opt-in assessment. You can group the students by class for more detailed analysis.

Each student is shown as a diamond. The vertical position of the diamond shows the student's achievement, which can be compared with the NAP Science Literacy assessment is also shown, along with the 20th and 80th percentiles of national performance.

Hovering over a diamond shows more detailed information about the student.



Class report data can be exported as an Excel file.

Student Name: the first and last name (or pseudonyms) of the student, as provided by the school.

Achievement Score: the NAP Science Literacy scale score achieved by the student.

Proficiency Level: the NAP Science Literacy proficiency level achieved by the student.

Local ID: the student ID associated with the student, as provided by the school.

Gender: the gender of the student (Male, Female, Other), as provided by the school.

Vertical placement of the students in the report

The vertical position of each diamond depends on the student's achievement on the NAP Science Literacy achievement scale. The higher the diamond, the better the performance. Note that students whose achievement falls close to a proficiency level boundary will be displayed exactly on the boundary. Their proficiency levels can be seen by hovering over the diamond and are also shown in the Excel export.

NAP Science Literacy proficient standards

The proficient standards provide reference points for challenging but reasonable expectations of student achievement at each year level. The proficient standard for Year 6 is the boundary between Levels 2 and 3. The proficient standard for Year 10 is the boundary between Levels 3 and 4.

National percentage in proficiency levels

The percentages shown in each proficiency level are based on national results in the most recent NAP Science Literacy assessment. The proportions for your school can be seen in the School summary report.

How to interpret the **NAP Opt-in School Report**

The **School summary report** shows how students in your school, and classes within your school, performed on the NAP Science Literacy Opt-in assessment. You can filter by year level if your school participated in both Years 6 and 10 assessments.

You can see the mean score and the proportions within each proficiency level. These can be compared to the national results.

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Items report

Class report

School summary report

School summary report can be exported as an Excel file.

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Domain: Science Literacy **Year Level:** 6 Export

School summary report

The School summary report presents a table of statistical information about your school's performance.

It shows the school's mean score on the NAP Science Literacy achievement scale, as well as the mean score for each class and the national mean score. This allows you to compare the average performance of students in your school.

The proportion of students in each proficiency level is also shown. This allows you to see the distribution of student performance in your school.

	Mean	Level 1 or below (%)	Level 2 (%)	Level 3 (%)	Level 4 (%)	Level 5 or above (%)
National	407	12	32	39	16	2
Group A	550	0	5	30	30	35
Group B	437	5	30	45	15	5
All	493	3	18	38	23	20

1 100 items per page 1 - 4 of 4 items

Mean – the average NAP Science Literacy scale score for the group
Level 1 or below (%) – the percentage of students from the group in the lowest proficiency level
Level 2 (%) – the percentage of students from the group in the second proficiency level
Level 3 (%) – the percentage of students from the group in the third proficiency level
Level 4 (%) – the percentage of students from the group in the fourth proficiency level
Level 5 or above (%) – the percentage of students from the group in the highest proficiency level

How to interpret the **NAP Opt-in School Report**

The **proficiency level descriptions** provide information about what students know and can do at each of the 5 NAP Science Literacy proficiency levels. Every student's achievement score on the NAP Opt-in Science Literacy assessment is allocated to one of these 5 proficiency levels.

Proficiency level	Description
Level 5 or above	At Level 5, students can apply scientific principles and abstract concepts to develop and evaluate scientific explanations for complex, multi-faceted phenomena in familiar and unfamiliar contexts. Students are able to propose and justify their own scientific solutions and critique solutions made by others to address personal, community and global issues. Students can design valid scientific investigations that would systematically generate reliable data and explain the purpose of an experimental design, including how equipment allows data to be collected accurately. They can explain the value of models to investigate scientific phenomena and evaluate their advantages and limitations. Students can critically evaluate the outcomes of scientific investigations to identify limitations and sources of error, and propose alternative strategies. They can explain relationships between variables, evaluate data and information presented in a variety of formats, and justify conclusions that are consistent with evidence.
Level 4	At Level 4, students can apply scientific principles and concepts to construct and evaluate scientific explanations for complex, related phenomena in familiar contexts. Students are able to explain how scientific knowledge informs decisions and actions, and propose scientific solutions to address personal, community and global issues. Students can select equipment to collect accurate data and explain how to control variables to obtain valid outcomes. Students are able to analyse data and information resulting from investigations presented in a variety of formats. They can draw conclusions using evidence and scientific explanations and can propose strategies to improve the reliability of investigations.
Level 3	At Level 3, students can draw on scientific principles and concepts to construct and interpret scientific explanations of phenomena of increasing complexity in familiar contexts. Students can explain how scientific knowledge influences strategies proposed to solve personal and community problems. Students are able to plan straightforward investigations including identifying equipment to collect accurate data and identify and classify variables in a fair test. They can identify a source of error in an investigation and analyse data and information presented in a variety of formats. Students are able to draw conclusions consistent with evidence and support or refute predictions using evidence.
Level 2	At Level 2, students can draw on basic scientific principles and concepts to identify, explain and classify phenomena in familiar contexts. Students are able to recognise how the application of scientific knowledge can be used to develop solutions in their personal and community contexts. In the context of scientific investigations, students can identify scientific questions and predictions, and understand how variables influence outcomes. They can select appropriate equipment for a scientific investigation, perform simple calculations and label simple scientific diagrams. They can interpret data and information presented in a variety of formats and identify information that supports a conclusion from simple investigations.
Level 1 or below	At Level 1, students can draw on basic knowledge and personal experience to recognise and describe aspects of phenomena using science concepts in familiar contexts. Students can identify familiar issues relating to a scientific concept that may affect their daily life. Students are able to use basic science inquiry skills to identify suitable equipment and identify risk management strategies for an investigation, take measurements and label graphics in familiar contexts. They can analyse simple representations of data and information to identify patterns and draw basic conclusions.