

Avogadro Exam 2021 Report to Supervisors

To: Examination Supervisor

From: Dr. L. Ingram, on behalf of the examiners

Brief overview

Thank you for challenging your students with the 2021 Avogadro exam. Here is a brief summary of results from this year's exam.

Number of students	Number of schools	Average score (out of 39*)	Average score (percent)
2974	278	22.9	58.7

*Question 16 was redacted because of two possible answers.

Teachers can use SciOn (<https://scion.uwaterloo.ca>) to view the exam with results, access their students' scores and generate certificates of distinction or participation. Please use the same login and password information you used to sign in to write the Avogadro Exam. (This information was sent by e-mail from scialert@uwaterloo.ca.) Teachers remember that if you ordered both exams (Chem 13 News Exam and Avogadro exam), you were sent a different login/password for each exam. Contact Kathy Jackson (kjackson@uwaterloo.ca) if you are unable to find your login and password.

Instructions for customizing the distinctions displayed for each student

The default settings for the displayed distinctions for each student are:

- the exact ranking within the world
- the exact percentile within the world
- the ranking within the school

Teachers can change (or add to) what is displayed for each student by clicking on "Configure Distinctions" and changing the settings. When the changes are saved, SciOn will update the distinctions that are displayed for each student. **A maximum limit of 4 distinctions is allowed.**

Here are some examples:

- To display the exact ranking within the country for every student, set Scope="country" and Type="rank". Set the range equal to a number greater than the total number of participants (e.g., 6000). Make sure the Specific box is checked.
- To display the exact percentile within the world, but only if the student is at or above the 80th percentile, set Scope="world", Type="percentile", and set the range equal to 80. Make sure the Specific box is checked. If the Specific box is not checked, then the distinction will appear only as "within the 80th percentile in the world" for all students at or above the 80th percentile.
- To display the exact percentile for all students, set Scope="world", Type="percentile", and Range=0. Make sure the Specific box is checked.

Certificates

After you have configured the distinctions, you can download or print certificates for your students to recognize their achievements or participation. Students who earned distinctions will get a Certificate of Distinction with the distinctions printed on the certificate. If there are no distinctions listed, students will get a Certificate of Participation instead.

Feedback

This is the 4th consecutive year that all students wrote the Avogadro exam online. If you would like to provide feedback to help us improve the experience, please use our online feedback form:

<https://uwaterloo.ca/chemistry/feedback-waterloo-chemistry-contests>