

GLOBAL PERIODIC TABLE COMPETITION

*on the occasion of the 100th anniversary of IUPAC
and 150th anniversary of the Periodic Table*

iupac.org/100quiz



INTERNATIONAL UNION OF
PURE AND APPLIED CHEMISTRY

Guidelines

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Introduction

The Global Periodic Table Competition has as a main goal to celebrate the role of IUPAC in the standardization of the Periodic Table of the Elements, in creating a common chemistry language, and in forming an international forum of experts to advance chemistry. Most likely, the year 2019 will also be proclaimed the International Year of the Periodic Table by the UNESCO. Several other groups, such as EuCheMS or the Russian Academy of Sciences are also preparing activities to highlight Mendeleev's conception of the Periodic Table dating 1849.

Within IUPAC other activities and projects have also begun.

Description of the landing page

The contest will be available from www.iupac.org/100quiz. There, all the relevant information about the contest will be found, including the rules of the contest and the registration form. People will be able to register as individuals or groups (Classes, Schools, Institutions). After registration, the quiz will start.

On the landing page, one will be able to see how many individuals, institutions, and/or countries have already participated in the contest. Also, one will be able to see who holds the highest scores at the moment, within each category of the quiz.

Description of the contest page

The IUPAC 100 Periodic Table quiz will be designed through a web platform called typeform.com. The game page will consist of a Periodic Table. Before starting the game, the player has to choose the mode of play. Several options will be possible:

- Answers focusing on elements from a certain group (halogens, noble gases, etc.)
- Answers focusing on elements from a certain period
- Answers involving the entire Periodic Table (118 questions)
- Random selection of twenty questions

After making this choice, either a group, a period, or the whole table will change color showing elements that are part of the game. Then, questions will appear in a random fashion. When the participant has chosen an answer, an immediate feedback will be given with red or green color indicating whether the submitted answer was correct or not. The answers will stay linked to the registered email address, and cannot be changed.

When all questions have been answered, the player will receive a detailed explanation on what the correct answers were. A link will also be provided to an automatically generated certificate of appreciation, indicating the name of the participant as well as the score.

Participants that have attempted to answer all 118 questions are eligible for a gold certificate. The ones correctly answering all questions will receive a IUPAC Periodic Table signed by a Nobel Prize Laureate (depending on the number of participants doing this).

Extra reward!

Participants that have participated in the contest are invited to participate in a second round. In this round, they are asked to send in a photo, exhibit, or video, highlighting one particular element in the Periodic Table. The submitted material will be evaluated by a pre-determined jury. One or two of these submissions may be invited to participate in the 2019

IUPAC General Assembly in Paris, where they will receive a periodic table signed by one of the Nobel Prize Laureates.

Questions

Some questions have been already prepared by the coordinators, but we need your input to formulate the 118 questions linked to each element with full diversity of topics covered. Please keep in mind that several types of questions are possible. Questions about the name, chemical or physical properties or discovery are possible. But more importantly, we also need you to provide the correct answer highlighting the role of IUPAC in that particular case or more broadly. Remember that this activity is about educating people about the work of IUPAC.

In this online document (Google documents), you can find the initial draft questions and answers that have been produced as first examples for you and the members of your Division or Commission:

<https://docs.google.com/document/d/1q9zLSi7huua0RkkUNcybgQjftitBV4UeDAiKzeOp-0/edit?usp=sharing>

From this document, you can get an idea of the type of possible questions. Note that each element may (and should) have several questions so that the best question may be selected in the end. Please send your questions to Jan Apotheker (apocare@gmail.com) with '100QUIZ' in the subject line. The names of all persons who participated in making this Global Activity will appear in the www.iupac.org/100quiz.

Thank you for helping us celebrate IUPAC 100 years of history creating a common language for chemists!