



## High School Class Competition Science on the Move 2021



### PROJECT DESCRIPTION

- Introduction** The SimplyScience Foundation (SimplyScience.ch) is launching the sixth edition of the **nation-wide science competition for high school classes one or two years prior to the Swiss Matura**. The project is intended to inspire interest in sciences for a broad spectrum of students. The competition is especially attractive because of its top prize for the winning class and their teacher to spend a science week in London and Cambridge or Oxford (England). The concept and content of this competition have been developed by a special project team as part of the SimplyScience Foundation.
- Objective** The objective of this competition is to identify the class with the **greatest dedication** and greatest commitment in science subjects through a two-phase competition. Chemistry, biology, electronics, economics ... anything goes! Interdisciplinarity is welcome.
- In the **first, practical, phase (Phase 1)**, the goal is to develop a smart system that contributes to improving our daily life. Great ideas can become game changers in the fields of communication, technical inventions, scientific achievements or social interactions. For more information on smart systems, please visit: <https://tinyurl.com/y6cpqc9e>
- In contrast, the **second phase (Phase 2)** of the competition calls for different capabilities. In a brief five-minute live **performance on stage**, the top 10 classes will illustrate the experiences they had while conducting the task.
- Teamwork** The **entire class shall participate** in this competition. Good organisation, clever division of tasks, strong communication in the group and mutual support are indispensable aspects in order to do well. It is expected that students perform a variety of tasks such as executing research, performing experiments, designing and formatting documenting material, translating, and performing on stage. This requires a variety of different strengths and abilities, which should allow all students to actively participate.
- Target group** Science on the Move is intended for high school classes (level "Gymnasium"), one or two years prior to the Swiss Matura in all regions of Switzerland. Generally, this corresponds to the 10<sup>th</sup> and 11<sup>th</sup> school year. It is also possible to build a "new" class consisting of students from different classes. The number of participating classes is limited and they will be considered in the order of their application. Classes with more than 14 students will be prioritised. To ensure equal chances for all language regions, all competition activities will be in **English** – the international language of science.
- Teachers/Mentoring** The **teachers play a crucial role in Science on the Move**. Besides coaching their students, they encourage and motivate them throughout the phases of the competition. They should promote inclusion, creativity, innovation, confidence and fun

and empower students to handle their problems independently. They also provide guidance and reassurance on research topics and methodology. It is also desirable that they contribute with logistical support, especially in Phase 2.

Teachers must not get involved themselves in solving and correcting the task in Phase 1. To ensure this, a signed agreement by the respective teacher and the class team leader must be submitted. Their signatures will confirm that they will comply with these rules.

#### **Time Management**

Each class has **8 weeks** to complete the project in **Phase 1**. The effort required for Phase 1 is estimated at **10 half-days**.

It is possible for classes to continue working on the project outside of their normal classroom hours. However, teachers can also allow the project to take place during their normal teaching time.

#### **Team Leader**

Each class will select its **team leader** and a deputy team leader among the students. These students will be the contacts for the “Science on the Move” organizers. Contact information of the teacher is required for any questions or issues regarding the competition.

#### **Phase 1 Challenge**

In Phase 1, the task will be published on [www.simplyscience.ch](http://www.simplyscience.ch) on **February 8, 2021**.

This year’s challenge will involve the development and documentation of an idea of a smart system. This may be a product, a procedure, a whole system ...

The solutions and documenting material must be submitted according to the specifications and time schedule provided by the organizers.

Each class needs to keep an “Activity List” which records which student was or is responsible for each part or aspect of the work. Each student in the class must have participated at least once in Phase 1. We recommend that the classes organize themselves, assigning and sharing tasks among themselves. It is not necessary for each student to perform all the tasks.

Every participating class will receive a financial contribution for the task.

#### **Phase 1 Scoring**

All eligible submissions received on time will be reviewed and evaluated by the project team. A **scoring list** will be provided showing the maximum points achievable for each task. The **project team** will then determine the **top 10 classes**.

The 10 top-rated classes will be announced in the middle of **April 2021**. At this point, they will be expected to compete again in the Final Event (Phase 2).

#### **Phase 2 Challenge**

Only the 10 top-rated classes will proceed to Phase 2 of the competition (which is organized very differently than Phase 1) and take part in the **Final Event** on **11th June 2021** at Roche in Basel/Kaiseraugst.

At the Final Event, the individual classes will each have to deliver a five-minute live **performance** on stage. The objective of the performance is for students to link, as imaginatively and convincingly as possible, their experiences during the first phase of the competition with the subject of the competition “Science on the Move”.

Music, literature, poetry, theatre, a debate or a straightforward presentation ... anything goes. Homemade videos are welcome but may only be a part of the performance. Personal live performance on stage is required. It is up to the class how many people from their class will perform on stage.

All performances will be judged by an expert jury according to the scoring aspects outlined below.

**Phase 2 Scoring**

**Content, relevance to the issue of Phase 1.** Is the performance relevant to the issue? Are the aspects addressed relevant to the issue?

**Creativity, depth, level.** Is the performance engaging? Is it creative? Is it well thought-out? Is it thought-provoking?

**Persuasive power, enthusiasm and dedication.** How convincing was the performance? How much passion and dedication were shown? How strong was the will to win this competition **as a team**?

**Prizes**

The **first prize** is a **week-long trip to London and Cambridge or Oxford (England)** with a diverse and exciting science program. The winning class will visit state-of-the-art businesses and colleges, famous science museums and of course get to see the city of London.

**2<sup>nd</sup> prize:** a three-day science field trip in Switzerland  
**3<sup>rd</sup> prize:** a two-day science field trip in Switzerland  
**4<sup>th</sup>–10<sup>th</sup> prize:** a one-day science field trip in Switzerland

Additionally, all 10 top-rated classes will have the opportunity to experience a **science visit** at Roche in Basel, Kaiseraugst, Rotkreuz or the remediation centre in Grenzach.

All participating classes in the final phase will also receive a **certificate** to confirm their participation in “Science on the Move”.

<b>Timeline</b>	<b>Start Application period:</b>	<b>November 2020</b>
	<b>Application deadline:</b>	<b>January 15, 2021</b>
	Announcement of participating classes:	January 22, 2021
	<b>Phase 1 – Challenge</b>	
	Publication of task:	February 8, 2021
	Closing date (submission of project documentation):	April 1, 2021
	Selection of the top 10 classes:	April 6 - 16, 2021
	<b>Phase 2 – Preparation Stage Performance &amp; Final Event</b>	
	Announcement of the top 10 classes:	April 16, 2021
	Stage performance and winner selection:	June 11, 2021
	<b>Winning class: Science trip to London</b> (students + teacher)	<b>Sept 5 - 11, 2021</b>

**Questions?** E-mail: [scienceonthemove@simplyscience.ch](mailto:scienceonthemove@simplyscience.ch)

**Contacts**

Sarah Menzi (Project Manager)	+41 (0) 44 368 17 48
Thomas Flüeler (Managing Director)	+41 (0) 44 368 17 46

We look forward to being in touch with you and we wish everyone great success in the Science on the Move challenge.

## **Diversity & Inclusion**

Creativity and innovation are at the core of this competition, therefore we value inclusion and diversity, such as different thinking styles, experiences, gender, ethnicity, nationality and all Swiss language regions. Additionally, we are committed to accommodating participants with disabilities or special needs.

## **Terms & Conditions**

Students must reside in Switzerland to be eligible for the competition. Application to the competition is only possible with a class or a group of students. The number of participating classes is limited and they will be considered in the order of their application. Classes with more than 14 students will be prioritised. It is also possible to build a “new” class with students from different classes. Only classes enrolled in the school year one or two years before the Matura at a Swiss “Gymnasium” are eligible for the competition. Employees of the SimplyScience Foundation and members of the jury or the project team are not allowed to share any additional information about the competition with friends and teachers of any school.

Information on rank and points achieved will only be communicated after the end of the competition and only upon request. Any appeal to a court of law is excluded.

Winning classes will be informed directly by the SimplyScience Foundation.

The exchange of prizes for cash or any other prize is not possible.

SimplyScience.ch is allowed to publish all photos and videos received or taken during the competition in any print or electronic media channels.

**By applying for this competition, each person agrees to the terms and conditions stated above.**

## **About SimplyScience**

The SimplyScience Foundation operates the online platform [www.simplyscience.ch](http://www.simplyscience.ch). It is intended for all Swiss children and young people between 8 and 18 years of age. Texts, images, videos, experiments and competitions establish a connection between natural science or technology topics and everyday life in an easy-to-understand manner.

The goal of the SimplyScience Foundation is to promote science and technology and inspire the next generation of innovators. SimplyScience encourages public awareness of science and technology for students, parents and teachers.