

Mind The STEM Gap

A ROBLOX JUKEBOX

A journey from infinitesimally small molecules to the immensity of space.
A video game to break down gender stereotypes in science.

In dialogue with the 23rd Triennale Milano International Exhibition
 “Unknown Unknowns. An Introduction to Mysteries”

In collaboration with
Triennale Milano

Mind The STEM Gap - A ROBLOX JUKEBOX

23rd An installation in dialogue with the universal themes of the 23rd Triennale Milano International Exhibition, from the invisible language of mathematics to space exploration

Game An immersive, interactive video game playable in groups or solo

6! Get through six levels, guided by female scientists who made a difference

VR Sixteen game stations equipped with optical viewers and joysticks

10+ For everyone, ages 10 and up

Triennale Milano
 Giancarlo De Carlo Gardens
 Viale Alemagna 6, Milan, Italy

1 July to 31 October 2022
Admission free

11 a.m. to 8 p.m., Tuesday to Sunday
 (last admission at 7 p.m.)

Concept: Fondazione Bracco

Design: Space Caviar

Produced to mark the Bracco Group's 95th Anniversary

Thanks to Ersilia Vaudo, main curator of the 23rd Triennale Milano International Exhibition

For information and tour reservations, contact scuole@fondazionebracco.com

Level 1 Mind that stereotype

Marie Skłodowska Curie (1867-1934)
Chemist and Physicist
 Seeing the infinitely small

Level 3 Self-belief

Maria Gaetana Agnesi (1718-1799)
Mathematician and Theologian
 The invisible language of the universe

Level 2 Language

Ada Lovelace (1815-1852)
Mathematician and Computer Scientist
 Thinking about algorithms in the nineteenth century

Level 4 Role models

Elena Lucrezia Cornaro Piscopia (1646-1684)
Philosopher
 Science as an interdisciplinary network

Level 6 Together, everywhere

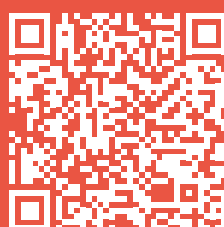
Annie Jump Cannon (1863-1941)
Astronomer
 The catalogue of the stars

Level 5 Critical thinking

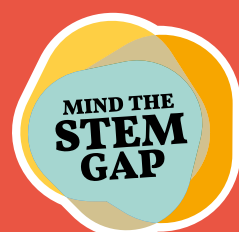
Anna Atkins (1799-1871)
Botanist
 Between the plant world and photography



Sign the Manifesto



Consent of the person exercising parental responsibility is compulsory for under-eighteens.



The “Mind the STEM Gap” Manifesto launched in 2021 and was publicly presented in February 2022 at Expo 2020 in Dubai.
 Marking the Bracco Group's ninety-fifth anniversary, the MTSG – A Roblox Jukebox installation confirms the Fondazione Bracco's commitment to helping girls and young women pursue a career in science.



The Mind the STEM Gap Manifesto for Girls [and Boys]



Watch out for stereotypes.

Stereotypes are old-fashioned ideas. They act unconsciously and become self-fulfilling prophecies. The idea that science is for boys is a stereotype, a cultural construct that is outdated and dangerous, because it undervalues and hinders the work of women scientists of the past and present. Let's learn to recognise stereotypes, question them, and help others to do so.



Behavioural models.

Prejudices and stereotypes support unjust practices: taking care of children and housework are still seen primarily as women's work. Let's use our creativity to come up with gender-neutral behavioural models, and imagine new ways of doing things that will inspire people and show them that it can be done. Let's take action ourselves to allow everyone to express themselves freely.



Language.

Words describe the world, but they also form it. There are proverbs and idiomatic expressions that more or less explicitly degrade women, such as "act like a girl", or "it's a guy thing". Let's choose our words carefully, and use inclusive language; let's try and avoid language that reinforces the cages and fences within which people are forced to live.



Critical thinking.

Certain images and content offer simplified, empty visions of differences and of the specific qualities of individuals, and particularly, many backward ideas about women. When we find them in the media, on the internet or on the social networks, let's analyse them, take a critical look at them and choose not to adopt them.



Self-confidence.

There's an inequality we need to fix: from an early age, girls tend to consider themselves less talented at mathematics and the sciences than boys. Confidence in one's abilities starts with play and is reinforced at school. Going beyond the division between "toys for boys" and "toys for girls", we want everyone to be free to discover what they like since their childhood, and challenge themselves at school without coming up against preconceived ideas, with inclusive exercises, simulations and experiments.

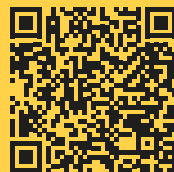


Together, all over.

Going beyond the stereotypes and coming up with a more inclusive version of science is a challenge for all of us. There's a lot we can all do to make this happen. Let's put the points of this manifesto into practice every day, at home, at school, with our friends, and with the involvement of our whole community! That's how things change.



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Mind the STEM Gap is a Fondazione Bracco project.

Established in 2021 after many years of the Foundation running and promoting schemes to break down gender stereotypes, raise awareness about female experts in fields still perceived as male preserves, and support inclusive educational experiences, the Manifesto is targeted at the entire educational community. For this reason, the Mind the STEM Gap Manifesto is also available in two other versions.



**Mind the STEM Gap
at Home**



**Mind the STEM Gap
at School**

For reservations and visits to the installation, please contact
scuole@fondazionebracco.com

mindthestemgap.fondazionebracco.com

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