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Super Hero Lab

Engaging Children as Scientists to Explore Sustainability

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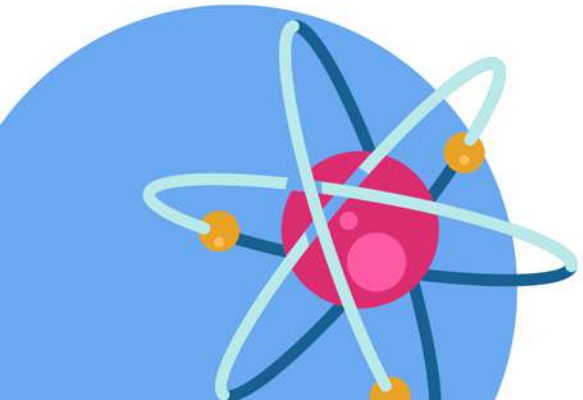
OBJECTIVES

- Equip kindergarten teachers with the necessary skills and motivation to effectively conduct the Superhero Lab experiments.
- Deliver hands-on multilingual learning material with accompanying support materials for teachers.
- Conduct local Superhero Labs with children aged 4-6 within the associated kindergartens and wider
- Empower the Superhero Lab partnership to further innovate age-appropriate experiments
- Promote international collaboration, learning, and sharing of best practices on teaching sustainability among kindergarten teachers, and teacher trainers



RESULTS

1.The Superhero Lab Learning Material Pack

A well-structured educational document for kindergarten teachers that will include 15 hands-on experiments and a comprehensive Teacher's Handbook.

2.The Superhero Lab Training Course

A blended learning platform (MOOC) that will consist of video tutorials, course curricula, presentations and worksheets for teachers.

3.The Superhero Lab Best Practices Collection

A document in the form of digital Handbook that will include existing existing practices on teaching sustainability in kindergartens and a compendium with reports on Superhero Labs with children.

AIM

The Superhero Lab aims to kindergarten teachers through trainings and innovative curricula while also engage children as scientists through experiments that cultivate a love of science and STEM subjects, thereby inspiring them to become agents of change in the creation of solutions to environmental issues.

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WHY THIS PROJECT

Early childhood education is critical for shaping children's attitudes and behaviours towards sustainability. Through the European Green Deal, Next Generation EU, Recovery and Resilience Facility, and Pact for Skills, the EU encourages the education and training sector to develop sustainability competencies for all learners and contribute to the green transition. However, additional efforts are required to ensure that all learners have the opportunity to learn about sustainability within STEM subjects. Kindergarten teachers necessitate supplement assistance when it comes to teaching sustainability concepts through science.

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