

# STEM BY STEM

Improving educators' skills in inclusive STEM lessons creation

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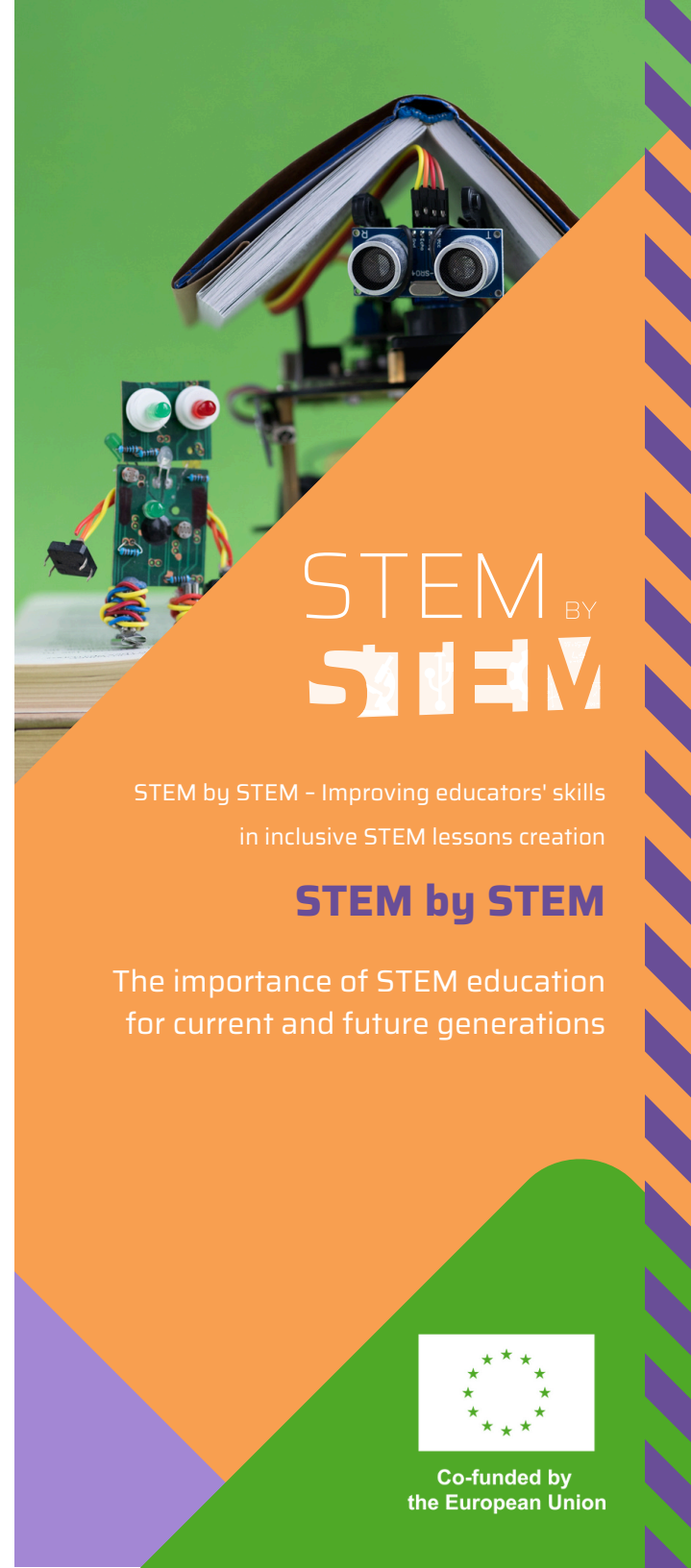
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STEM by STEM - Improving educators' skills  
in inclusive STEM lessons creation

## STEM by STEM

The importance of STEM education  
for current and future generations

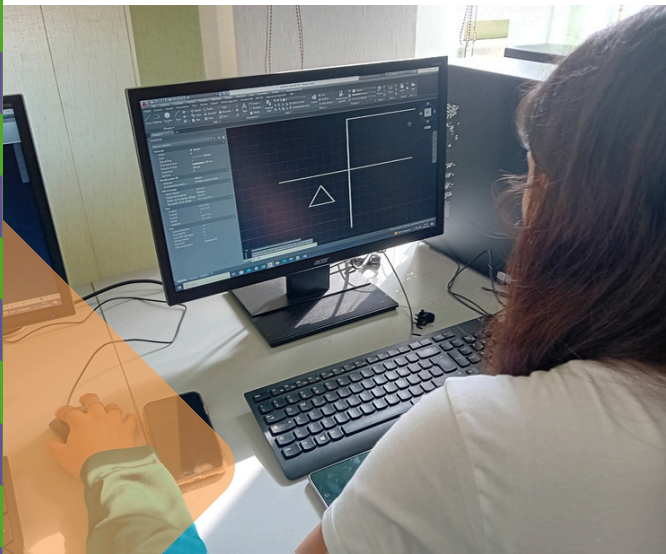


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## Focus

The objective of **STEM by STEM - Improving educators' skills in inclusive STEM lessons creation** project is to enhance the competencies of teachers and educators in the adoption of the STEM approach in school environments. This initiative aims to develop and share accessible, readily implementable STEM educational resources for the purpose of stimulating students' interest in STEM and enhancing their science literacy.

The project's goal is to facilitate students' development of a STEM-oriented vision, thereby promoting their education as active and informed citizens.



## Products



Toolkit for teachers, with useful guidelines and tips for teachers for implementing the STEM approach at school, with a focus on robotics, electronics, 3D printing, and interdisciplinary projects.



STEM lessons which can be used as a foundation for developing classroom activities with students, fostering more creative learning environments and providing opportunities for students to apply their knowledge.



Online Wiki, an open-access platform designed to provide valuable resources for teachers and educators, including video resources and interviews with teachers and other professionals focused on the STEM approach in an educational setting.



National workshops with teachers: training sessions as a forum for reflection on the integration of STEM practices in the educational context and the identification of resources that could be used to promote a stimulating and creative school environment.

## Goals

- To empower teachers with engaging methodologies in order to facilitate STEM education through experiential learning and the adoption of effective and innovative practices within the classroom.
- To share engaging educational tools to foster creative learning environments and promote science literacy among students, through open access resources that can facilitate the organization of STEM activities in schools.

## Impact

- Strengthen the professional and personal development of teachers and educators through the use of innovative educational tools.
- Encourage teachers' and educators' engagement and creativity in developing self-created STEM lessons for their students.
- Raise teachers' awareness of how to use STEM resources in formal and non-formal educational settings.
- Raise awareness among students and parents about future careers and the need for specific skills and knowledge in STEM fields.