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Newsletter #2



STEAM
ing ahead

Fostering critical thinking,
problem-solving and creativity

Promoting excellence in STEAM

STEAMing Ahead will develop a set of resources and pedagogical methodologies for teaching and promoting excellence in Science, Technology, Engineering, Mathematics and Arts (STEAM) in schools in Europe.

By using the Golden Ratio as a common reference, the project will train European students to become the innovators, educators, leaders and learners of the 21st century.



What will we deliver?



**Strategies, Methodologies
and Analysis**



**Curricula, Resources and
Assessments**



**Courses, Modules and
Peer-Learning Activities**



**Guidelines, Publications
and Recommendations**



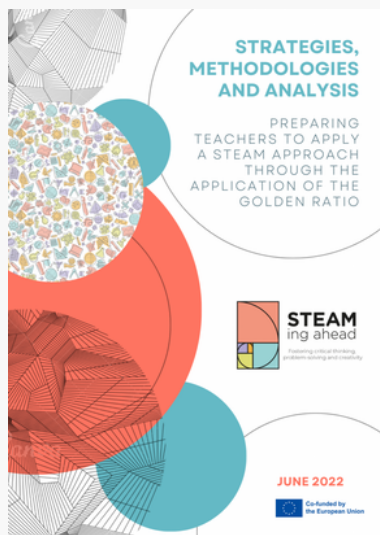
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www.steamingahead.eu



Co-funded by
the European Union



[CLICK HERE TO DOWNLOAD THE GUIDE](#)

Methodological Guide

The project's first report seeks to shed light on the pedagogy and the methodology being implemented currently. The report proposes an innovative shift so European schools can use them in their classrooms when teaching STEAM. This is to nurture the key competencies for employability along with a core quality of life that delivers good health and personal fulfilment alongside social inclusion sustained by active, responsible citizenship.



[Click here to watch our first video and learn more about the project!](#)

Why the Golden Ratio?

The Golden Ratio is an ideal platform to launch practical activities in the classroom as it carries universality as well as being ideal for stimulating cooperation among the partners across borders.

[CLICK HERE TO LEARN MORE](#)

Get to know our partnership



COLÉGIO
SANTA EULÁLIA
1ª + 2ª CICLO - castiis

MAKE IT
PEDAGOGICAL

 **Searchlight**



CETEM

 **Politécnico
de Coimbra**

 **Escola Superior
de Educação**
Politécnico de Coimbra



STEAMing Ahead Lesson Plan

In our world, where change and development are inevitable, raising individuals who can 'ride this wave' and help to sustain its momentum, is a primary goal for society. This becomes realised by raising students to be the founders of tomorrow's development, to act as individuals who question, research, design, solve problems and show their creativity.

Using the STEAM approach, the STEAMing Ahead partnership has developed a lesson plan based on two highly relevant, current topics:



Topic 1: Saving water

When you are looking, you may think that water will never run out and that there is plenty to share. To some extent, this information is correct as the total amount of water in the earth's atmosphere and on its surface is constant. The water cycle provides this stability.

However, are all water resources suitable for the use of all organic living matter? What kind of sociological changes can occur in a world where water resources are insufficient? How does climate change affect the availability of water resources?



Topic 2: War

Throughout history, the biggest problem for humanity is war. Regardless of the reasons, wars in which innocent living things are harmed and all the resources useful for humanity are seriously damaged unfortunately continue to be our most challenging problem.

So, while wars threaten human life, what additional damage do they create? How do they affect society sociologically? Are the economic effects limited to the conflict zone, or can they extend far from the conflict? What can be done to raise awareness about this?

In order to make it easier for teachers to find answers to all these questions, STEAMing Ahead has designed lesson plans for the solution of real-life problems in which different disciplines crossover in cooperation.

