

STEAM-POWERED EDUCATION  
2021-2-BG01-KA210-SCH-000049746

## Schedule for the virtual mobility in Serbia

### “Art in everywhere”

**17. 10. 2022. / 18. 10. 2022.**

Students, monitored by their teachers, will do the researching and make a presentation about Fibonacci. Presentation will cover the following topics:

- Who is Fibonacci?
- What is the Fibonacci Sequence & the Golden Ratio? Simple Explanation and Examples in Everyday Life
- How to reach the golden ratio with Fibonacci numbers? Why is the golden ratio more pleasing to the eye?
- What kinds of artworks can we design using Fibonacci numbers? - Artworks made in history with the golden ratio.

Students will work in pairs of two, in 5 groups. Their presentation will be shared among them so everyone could see what their friends are working on. Each group will get the assignment.

Each country will make a presentation on the following topics and share it on the website and social media. Each country may do the presentation in their own language as well as in English.

**20. 10. 2022.**

Students will demonstrate their presentation via Zoom to the students from Bulgaria, Turkey and Serbia.

After the demonstration, there will be a workshop “Coloring activities using Fibonacci numbers”.

Students will work together (more students can be involved in a workshop) to create their own works of art based on the knowledge and information they gathered.

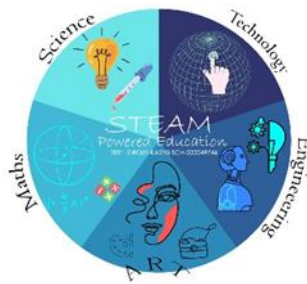
**Suggested activities:** Drawing a golden Rectangle and Fibonacci Spiral using the Fibonacci sequence, Creating the Fibonacci Spiral, Fibonacci Fractals, Drawing & Coloring Fibonacci tree....

**21. 10. 2022.**

### Photography workshop – Golden ratio in photography

Students will be asked to take photographs of real life examples of the art of Fibonacci and the golden ratio in nature and in the world around us.

Video and photo demonstrations of the works will be presented on social media, project website and YouTube channel.



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### 25. 10. 2022.

Students will make a short presentation which will cover the topics of:

- What is a Pendulum?
- How to make a pendulum
- The art of Pendulum Painting

### 27. 10. 2022.

#### Workshop:

Painting activity **“Using a swinging pendulum to create art”**

With the help of the teachers students will make a pendulum and use it to create their own work of arts. Experiment with different size weights. Try different lengths of string.

Tip: Things can get messy, so lay down old newspaper and wear old clothes.

Activity will be shared with students from Bulgaria and Turkey via Zoom.

Artworks will be shared on social media, project website and YouTube channel.

#### Materials/Resource needed for the workshops:

##### You Tube access

**The Fibonacci Art project:** Watercolor sets - brush sets - drawing paper, graph paper, glue, scissors, ruler, compass

**Pendulum Painting Project** - drawing paper - Watercolor sets, acrylic paints - Tubes of water - soluble paint (different colors)

**To make a swinging pendulum you will need:** plastic bottles, paper cups, bucket, rope/string, tripod or easel with a hook on the bottom or two chairs, a piece of wood about 1.5m long

### 28. 10.2022.

Quiz – will be done on Kahoot (students can install the app or do it on the website - <https://kahoot.it/>)

Evaluation