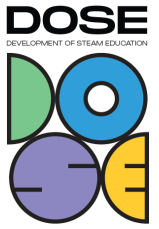


Celebration of Pi-Day



We remained at the first level of development of STEAM with our homework, ie the selected activities are integrated with the elements of different subjects at the level of one teacher.

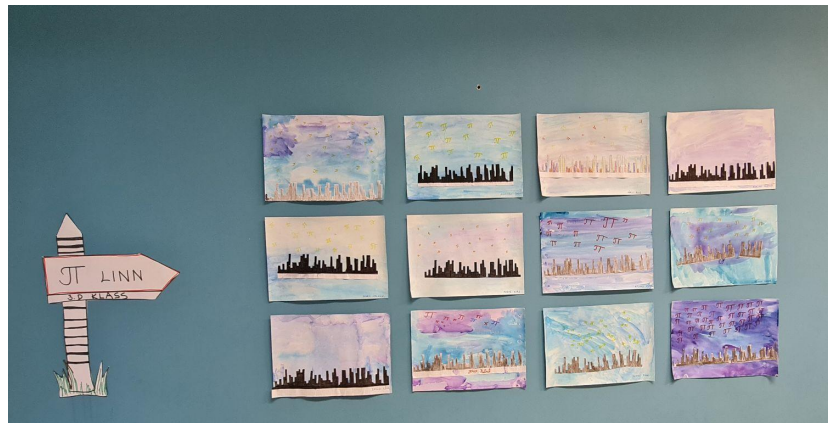
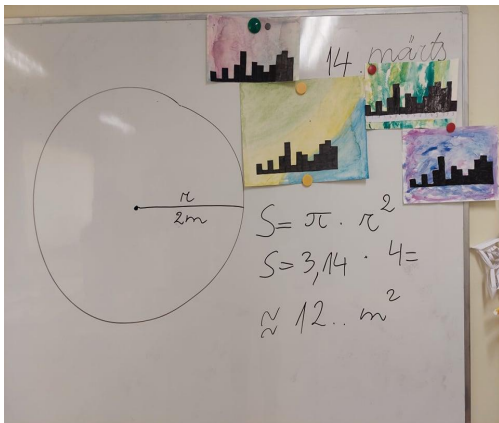
1. **Topic:** Celebration of Pi-Day
2. **Activities integrated:** The number Pi and the associated circle and sphere are integrated into different subject hours and activities in the classes and during the breaks.
3. **Age:** whole basic school, 1-9. class and teachers
4. **Time:** 4 lessons
5. **Markwords:** Pi, circle, sphere, cake, solar circles, mushroom circles, planets, folding, reflection straight, spinner, hula hoop, tires, mandala, pi language, words starting with pi and pi, internet searches, brainstorming, own job advertising, display, quiz
6. **Short summary (-200 words):**
The activities of the project help to introduce the history of the number of pi, to arouse interest in the number of pi, to teach to find a circle and a sphere in the surrounding life and to present one's work and activities to others, of course to be playful, creative and enjoy cooperation. The activities are created on the basis of predefined keywords or as personal ideas of the subject teacher.
7. **Materials and tools:**
various art tools (colored and printer papers, paints, crayons, felt-tip pens, etc.) and drawing tools (ruler, compass, etc.), tape measure, tires, game bases, hula hoops, smartphones, computers, internet, text editor, wordclouds.com, mentimeter.com.

8. Detailed instructions:

Subject lesson:

- **Drawing the Pi-city**

Students are given a Pi value, or students use a circle and diameter length (self-measure) to calculate the number of pi values that must be used to color the grid to decimal places. The silhouette of the city is formed, which is emphasized by the artistic sky.



- **History of Pi**

Students will be tasked, individually or in groups, with a presentation of the history of a number of pis or interesting facts about the number of pii.

- **Pi-language**

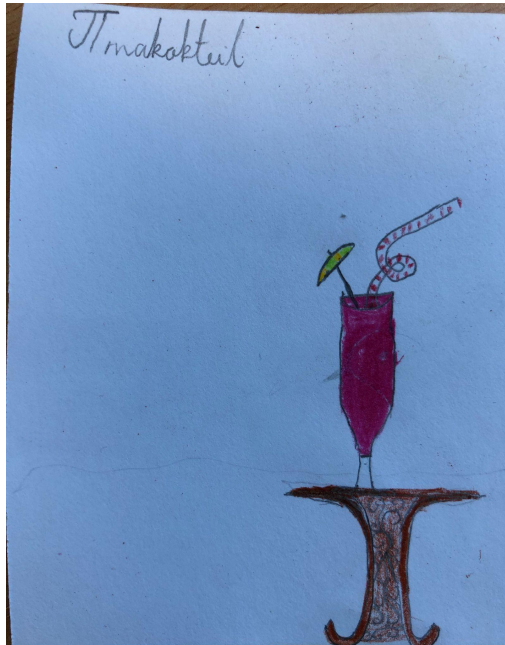
Students and teachers only speak Pi in class

- **Brainstorming for words that start with "pi" or "pii".**

- The student invents different words and draws them or a word cloud is formed.



Celebration of Pi-Day



- **Looking round or spherical objects from nature**

Students are given the task of photographing objects reminiscent of a circle or a sphere during a walk.

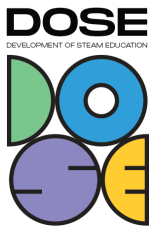


- **Mandala**

Students are explained the meaning of the mandala. And given a task with designing a mandala for themselves.



Celebration of Pi-Day



- **Fantasy picture**

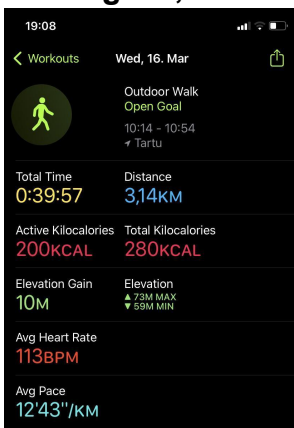
Students will be tasked to draw a picture from circles or using circles.



- **Constructing secret letters in Pi language.**

Students got an assignment to construct letters in Pi- language. And to solve a secret letter from a friend.

- **Walking a 3,14 km long distance in the breaks and after the lessons.**



Celebration of Pi-Day

- **Pi-through and throwing a plane through the circle.**



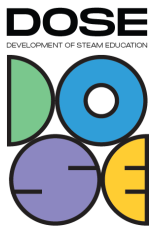
- Students fold an instruction. Students fold the paper plane according to the instructions or themselves and try to throw the plane around. Unlike circles give points differently. The basis of the game can be made by the teacher or prepared by the students.

- **celebrating Pi-day**

Students store circular, spherical or cylindrical amps on a common table.



Celebration of Pi-Day



- **Pii- throw aka rolling the tire.**

Students are given the possibility to roll a tire compete in this.



and

9. Learning goals:

- Joint activities with the whole school
- Show the more fun and playful side of math
- “Forcing” teachers and students to think about the same topic in different lessons, to find points of integration between subjects
- Discover a deeper understanding of the number of pi
- Develop manual activity - use of a compass, folding
- Develop skills in using digital tools to search, take photos, and measure distance.
- Introduce the concept of an infinite number

Every subject teacher definitely has their own goals.

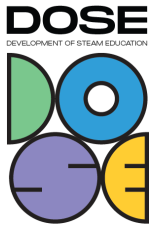
10. Assessment:

Each subject teacher assesses children according to the specifics of their subject and the activities carried out. Sweet surprises will be drawn between the makers.

11. Reflection and recommendations:

This year's Pi-Day project was a test of how the idea grows in school. In fact, it could be considered as a week of creating small individual projects. The small classes and the primary classes, the mathematics teachers, of course, and the hobby guide, who helped to carry out various games and competitions, fitted in very well with the given ideas.

Celebration of Pi-Day



12. Materials and tools:

Exciting materials and activities can be found on Pinterest by typing “pi day” into your internet search, including musical expressions of pi e.g.

<https://www.youtube.com/watch?v=wK7tq7L0N8E> või

<https://www.youtube.com/watch?v=wM-x3pUcdeo>

13. Kontakt:

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