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KEEPING UP WITH DIGITAL NATIVES





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ARAD, 2024

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CUPRINS

ERASMUS+ _____

INTRODUCTION

In a world where digital transformation is redefining education, the Erasmus+ project **KEEPING UP WITH DIGITAL NATIVES** represents an innovative response to contemporary challenges. With a vision centered on developing digital and pedagogical competencies, this project aims to provide teachers and students with the tools necessary to explore new teaching and learning methods by integrating technology into the educational process.

The primary priority of the project is to address digital transformation by strengthening professional training, resilience, and digital capabilities, thereby supporting educators and students during this transition. The project highlights essential themes such as digital content, digital skills and competencies, and innovative teaching methods, all supported by a strong partnership between institutions from Italy, Portugal, and Turkey.

Key objectives include improving the use of interactive whiteboards, applications, and digital platforms in teaching, increasing the number of digitized learning hours for high school students, and developing sustainable European partnerships. Through this project, teachers have benefited from practical training and exchanges of good practices, resulting in modern, accessible, and relevant educational content.

The results are impressive: from the creation of a website dedicated to digital educational resources and demonstration lessons to the certification of 25 teachers in the use of digital whiteboards. Additionally, we developed open educational resources using the learned applications/platforms, with 43 selected and published in this book, offering a valuable legacy for the educational system.

This project is more than an educational initiative; it is an invitation to collaboration, innovation, and adaptation. It demonstrates that, through partnerships and proper training, we can keep up with digital natives and turn technological challenges into learning opportunities.

Erdei Emese Katalin, Project Coordinator

Romania

Colegiul "Csiky Gergely" Arad Csiky Gergely Főgimnázium, Arad



Transnational management meeting



Workshop - Romania

"Myth and Mythology"

Subject: Hungarian Language and Literature

Class: 9th grade

Duration: 1 hour

Type of the lesson: mixed

Competences and skills:

- Reading epic works and identifying their structural elements and genre-specific features.
- Understanding oral and written texts; independent learning.

Applications and platforms used: Genially, Jigsawplanet, WordWall, Quizlet, Redmenta

Created by: Rudolf Ágnes Erika

Link: https://view.genially.com/66c49f03801a5f59c14c561a/presentation-mitosz-es-mitologia



"BASKETBALL"

Subject: Physical Education

Class: 9th grade

Duration: 1 hour

Type of the lesson: mixed

Competences and skills:

- Asking questions related to the learned topic.
- Creativity and problem-solving skills.

Applications and platforms used: Genially, Jigsawplanet, WordWall

Created by: Erdei Emese Katalin

Link: https://view.genially.com/6721139a7ab6432d8985e2ea/video-presentation-basketball-kosarlabda



"Angles"

Subject: Mathematics

Class: 5th grade

Duration: 1 hour

Type of the lesson: introducing new knowledge

Competences and skills:

- Naming, identifying, and classifying angles.
- Constructing and measuring angles.
- Performing operations with angles and understanding basic concepts.
- Using foundational angle-related concepts in problem-solving.

Applications and platforms used: Genially, WordWall

Created by: Pálfi Anetta

Link: https://view.genially.com/670501548fb11339d5e3dd45/learn-ing-experience-didactic-unit-szogek



"Derivative of a function"

Subject: Mathematics

Class: 11th grade

Duration: 4 hours

Type of the lesson: review lesson and assessment

Competences and skills:

- Application of differentiation formulas.
- Geometric interpretation of derivatives.
- Understanding the role of derivatives.
- Problem-solving skills in derivative-related tasks.

Applications and platforms used: Genially, Jigsawplanet, WordWall, Geogebra, Google Drive

Created by: Czeglédi Csilla - Ilona

Link: view.genially.com/671e02d5dd544691356c0880/interactive-content-derivalhato-fuggvenyek



"Operations with Whole Numbers"

Subject: Mathematics

Class: 6th grade

Duration: 1 hour

Type of the lesson: deepening knowledge

Competences and skills:

- Mathematical thinking: understanding operations with whole numbers.
- Argumentation and proof: recognizing the sequence of operations.
- Representation: performing operations with whole numbers using visual aids.
- Mathematical communication: explaining and reasoning to find correct results.

Applications and platforms used: Learning Apps

Created by: Spier Tünde

Link: https://learningapps.org/watch?v=p0vghem3a23 https://learningapps.org/watch?v=p7w8441tn23





"Accounting Documents"

Subject: Basics of Accounting

Class: 9th grade

Duration: 50 minutes

Type of the lesson: mixed

Competences and skills:

Knowledge:

2.1.4. Presenting accounting equipment, software, and records

Skills:

2.2.7. Identifying various types of accounting equipment, software, and documents.

2.2.8. Selecting, collecting, and processing information from documents. **Attitudes:**

2.3.5. Taking responsibility for using fiscal equipment, software, and accounting documents

Operational objectives:

By the end of the lesson, students will be able to:

- Define economic documents.
- List the identification elements of documents.
- Classify documents based on specific criteria.
- Understand the rules for completing documents.

Applications and platforms used: Genially, Kahoot, Redmenta

Created by: Ferenți Timea-Ilona

Link: https://view.genially.com/670be279373c3c94cc2f078f/dossier-doc-umente-de-evidenta



"I Want to Be an Entrepreneur. Entrepreneurial Spirit – Initiative and Risk"

Subject: Social Education

Class: 8th grade

Duration: 1 hour

Type of the lesson: mixed

Competences and skills:

- Correct use of terms related to economic and financial education.
- Achieving informed consumer status regarding goods, services, and financial products, as well as exercising rights and obligations.
- Interest in opportunities to reduce waste and save resources.

Applications and platforms used: Genially, Learning Apps, Youtube Created by: Tóthpál Renáta

Link: https://view.genially.com/6738ccfbb2fc0aa9334091a2/presenta-tion-a-vallalkozo



"The Story of Maros and Olt"

Subject: Hungarian Language and Literature

Class: Grade IV

Duration: 1 hour

Type of the lesson: mixed

Competences and skills:

1.1 Understanding informational and literary texts in everyday speech contexts.

1.4 Developing awareness of clear and expressive speech.

3.1 Drawing simple conclusions based on read texts.

3.2 Distinguishing between different types, genres, and forms of texts.

3.3 Identifying the unique characteristics of literary texts from various genres.

Applications and platforms used: Genially

Created by: Bálint Erika Vanda

Link: https://view.genially.com/67179cad5584506d748ce4b7/presentation-genial-storytale-presentation



"PRACTICING MULTIPLICATION"

Subject: Mathematics

Class: Grade III

Duration: 1 hour

Type of the lesson: practice

Competences and skills:

2.5. Performing multiplication and division within the number range 0–10,000 using multiplication and division tables.

5.1. Using mathematical language in solving and creating word problems.

Applications and platforms used: Genially

Created by: Viszhányó Aranka

Link: https://view.genially.com/60006fd7f7609f0cf7adf49a/game-lego-matek-szorzas



"Making Felt Balls"

Subject: Technological Education and Practical Applications

Class: 7th grade

Duration: 1 hour

Type of the lesson: practice

Competences and skills:

1.1. Creating simple products or creative works based on a given operation plan, selecting appropriate raw materials, tools, and equipment.

1.3. Product analysis according to jointly determined criteria.

Applications and platforms used: Genially

Created by: Rónai Helén

Link: https://view.genially.com/673ee2601439dc5983a305c3/presentation-nemezeles-ronai-helen



Portugal Agrupamento de Escolas À Beira Douro – Medas







Workshop - Portugal

MATERIAL CLASSIFICATION

Subject: Physics and Chemistry

Class: 7th grade

Duration: 45 minutes

Type of the lesson: Practical lesson (outdoor lesson)

Competences and skills:

• Teamwork, planning and problem solving skills.

Applications and platforms used: Goosechase, Canva

Created by: Carmen Cravo

Link: <u>https://www.canva.com/design/DAGAt_Wuo6A/PZl6nzWjX-</u> bRqOPjtS5VYQQ/edit?utm_content=DAGAt_Wuo6A&utm_campaign=designshare&utm_medium=link2&utm_source=sharebutton



"THE AMERICAN REVOLUTION - 1776"

Subject: History

Class: 8th grade

Duration: 90 minutes

Type of the lesson: Theoretical and practical lesson.

Competences and skills:

- Teamwork, planning and problem solving skills;
- Know how to ask questions about subject under study;
- Respect others;
- Giving them the opportunity to actively intervene in the class.

Applications and platforms used: Character.ai, Mentimeter, Canva

Created by: Diana Almeida

Link: https://www.canva.com/design/DAGVUUsDU7g/83WgbALefJgbvWHxzzDs5w/edit?utm_content=DAGVUUsDU7g&utm_campaign=designshare&utm_medium=link2&utm_source=sharebutton



"NATURAL NUMBERS"

Subject: Mathematics

Class: 5th grade

Duration: 90 minutes

Type of the lesson: Theoretical and practical lesson

Competences and skills:

• Teamwork, planning and problem solving skills.

Applications and platforms used: Wordwall, Canva

Created by: Dulce Sanguedo

Link: https://www.canva.com/design/DAGTFyeZIDc/gb5oDw-fMsaY4YepCn-39Xg/edit?utm_content=DAGTFyeZIDc&utm_cam-paign=designshare&utm_medium=link2&utm_source=sharebutton



"PYTHAGORAS AND HIS THEOREM"

Subject: Mathematics

Class: 8th grade

Duration: 90 minutes

Type of the lesson: Theoretical and Practical lesson

Competences and skills:

- Teamwork, planning and problem solving skills;
- Know how to ask questions about the subject under study;
- Respect others, giving them the opportunity to actively intervene in the class;
- Planning and problem solving skills.

Applications and platforms used: Character.ai.app, Canva

Created by: Ivone Mamede

Link: https://www.canva.com/design/DAGFmFGVMUQ/BhPuGjwHcqZ0u4nATE1Xjg/edit?utm_content=DAGFmFGVMUQ&utm_campaign=designshare&utm_medium=link2&utm_source=sharebutton



"ENERGY AND ELETRICAL PHENOMENA"

Subject: Physics

Class: 10th Grade

Duration: 45 minutes

Type of the lesson: Practical lesson

Competences and skills:

• Teamwork, planning and problem solving skills.

Applications and platforms used: AI – Vidnoz, Character.ai, Canva

Created by: Manuela Pinto

Link: https://www.canva.com/design/DAGFmJrqb2g/8290jUup_rFaWtp76zg5NA/edit?utm_content=DAGFmJrqb2g&utm_campaign=design-share&utm_medium=link2&utm_source=sharebutton



PROJECT "KIDS VOTING"

Subject: ICT

Class: 5th Grade
Duration: 45 minutes
Type of the lesson: Practical lesson
Competences and skills:
Teamwork, planning and problem solving skills;

• Creativity.

Applications and platforms used: Canva, Vidnoz

Created by: Natividade Santos/João Leão

Link: https://www.canva.com/design/DAGFmHdWg74/FKMIAkmFi-46UKCIAlOj41g/edit?utm_content=DAGFmHdWg74&utm_campaign=de-signshare&utm_medium=link2&utm_source=sharebutton



"ORIENTERING RACE"

Subject: Sports

Class: 12th Grade

Duration: 90 minutes

Type of the lesson: Orientering race

Competences and skills:

- Teamwork, planning and problem solving skills;
- Planning and problem solving skills;
- Socio-emotional skills through self-knowledge;
- Self-control, social awareness and decision-making.

Applications and platforms used: Goosechase, Jigswawplanet.app, Canva

Created by: Paulo Teixeira

Link: https://www.canva.com/design/DAGKwNgFznY/12TK7Hb0-J-sb-5NoI2Ii_A/edit?utm_content=DAGKwNgFznY&utm_campaign=design-share&utm_medium=link2&utm_source=sharebutton



"INTRODUCTION TO COORDINATE GRAPHS WITH DESMOS"

Subject: Mathematics

Class: 5th Grade

Duration: 90 minutes

Type of the lesson: Theoretical and practical lesson.

Competences and skills:

- Students will understand the coordinate system, learn to plot points accurately in Desmos;
- Develop critical thinking and collaboration skills.decision-making.

Applications and platforms used: Desmos, Canva

Created by: Pedro Silva

Link: https://www.canva.com/design/DAGFmGhIINs/uCzY0WShjT-m8Ur6UOfFajQ/edit?utm_content=DAGFmGhIINs&utm_campaign=de-signshare&utm_medium=link2&utm_source=sharebutton



"MEDITERRANEAN DIET"

Subject: Natural Sciences

Class: 6th Grade

Duration: 90 minutes

Type of the lesson: Theoretical and practical lesson.

Competences and skills:

- Teamwork, planning and problem solving skills;
- Planning and problem solving skills.

Applications and platforms used: Jigsaw Planet, Canva

Created by: Rosa Peixoto

Link: https://www.canva.com/design/DAGTF-SfgcI/CPrm79xpoGlOf-YsYbSA96Q/edit?utm_content=DAGTF-SfgcI&utm_campaign=designshare&utm_medium=link2&utm_source=sharebutton



"ABORTION AND P. SINGER'S UTLITARIAN ETHICS"

Subject: Philosophy **Class:** 11th grade

Duration: 180 minutes / 2 lessons

Type of the lesson: Theoretical and Practical (inside and outdoor lesson) **Competences and skills:**

- Critical thinking and oral communication;
- Teamwork, planning and problem solving skills.

Applications and platforms used: Goosechase, Canva

Created by: Stella Azevedo

Link: https://www.canva.com/design/DAGFmEU-y9M/NnRJVkqkUiN_F5tz0E-fdA/edit?utm_content=DAGFmEU-y9M&utm_campaign=design-share&utm_medium=link2&utm_source=sharebutton



Turkey

BUCA FATIH SULTAN MEHMET ANADOLU LISESI, IZMIR



Workshop - Turkey

"History of Art 1"

Subject: Art History

Class: 10th grade

Duration: 40 min

Competences and skills:

• Have knowledge about prehistoric art

Applications and platforms used: Genially

Created by: Sebiha IŞIKBER DUDAK

Link: https://view.genially.com/650edc7c4b3b670011f76e16/presentation-tarihoncesi-sanat



"History of Art 2"

Subject: Art History

Class: 10th grade

Duration: 40 min

Competences and skills:

• Reinforces their knowledge with Traditional Turkish Art

Applications and platforms used: Genially

Created by: Sebiha IŞIKBER DUDAK

Link: https://view.genially.com/646a3323e3b786001159fa93/interactive-content-bomb-quiz



"History of Art 3"

Subject: Art History

Class: 10th grade

Duration: 40 min

- Competences and skills:
- Reinforces their knowledge with Traditional Turkish Art

Applications and platforms used: Wordwall

Created by: Sebiha IŞIKBER DUDAK

Link: https://wordwall.net/tr/resource/65928007



Friendship

Subject: English

Class: 12th Grade

Duration: 40 minutes

Objective:

• Students will understand the topic of friendship, learn and use related vocabulary, and express their thoughts about friendship.

Applications and platforms used: GammaApp

Created by: Ömer BÖLÜKOĞLU SON

Lesson Stages:

1. Introduction (10 minutes)

Using GammaApp: Present a slideshow about friendship. The first slide could include a famous quote about friendship, such as "A friend is some-one who knows all about you and still loves you." – Elbert Hubbard.

https://gamma.app/docs/What-is-a-Friend-95bgpdj0nmgm8su

Q&A: Ask students questions about friendship:

"What makes a good friend?"

"Why is friendship important?"

2. Main Section (25 minutes)

Vocabulary: Introduce vocabulary related to friendship: trust, loyalty, support, empathy, companionship, honesty, etc.

Examples: Use GammaApp to share short stories illustrating different types of friendship. Discuss the values emphasized in each story.

Activity: Have students write a short paragraph. Topic: "What qualities should a good friend have?"

3. Conclusion and Evaluation (5 minutes)

Quiz on GammaApp: Create a short multiple-choice quiz on friendship to assess students' understanding.

Discussion: Students can share their paragraphs, and the class can have a discussion about friendship.

This plan can be enhanced with interactive slides and assignments on GammaApp, making the lesson more engaging for students.

Link: https://gamma.app/docs/What-is-a-Friend-95bgpdj0nmgm8su



USAGE OF WHEN AND WHILE

Subject: English

Class: 10th Grade

Duration: 40 minutes

Objective:

- Students will learn to use the conjunctions "when" and "while" to describe events occurring in the past.
- Goals:
- Students will understand the use of "when" and "while" conjunctions.
- Students will be able to express the relationship between two events occurring in the past.
- Students will construct sentences using "when" and "while."

Materials Needed:

- Redmenta platform (digital devices)
- Whiteboard and markers
- Projector (optional)

Applications and platforms used: Redmenta Created by: Ömer BÖLÜKOĞLU SON

Lesson Stages:

1. Introduction (5 minutes)

Introduce the lesson's objective and goals to the students.

Provide a brief explanation of how "when" and "while" are used in everyday speech.

Explain that you will be discussing how these two conjunctions are used in sentences in the past tense.

2. Concept Introduction (10 minutes)

Explain the difference between "when" and "while":

When: Used when one event happens, or is about to happen, and another event starts or ends. (It is often used for shorter, more sudden events.)

Example: "When I arrived home, it started to rain."

While: Used when two events happen at the same time. (It is suitable for longer-lasting events.)

Example: "While I was cooking, my friend called me."

Write example sentences on the board and explain their usage.

3. Practice (15 minutes)

Create a short quiz using Redmenta and give students time to complete it.

https://redmenta.com/tr/solve?ks_id=1672232268&utm_source=redmenta&utm_medium=worksheet&utm_campaign=worksheet_share

4. Reinforcement (5 minutes)

Ask students to write their sentences using "when" and "while."

Invite volunteers to share their sentences with the class.

5. Evaluation and Feedback (5 minutes)

Review the exercises done on Redmenta.

Discuss correct and incorrect answers, highlighting common mistakes and providing correct usage explanations.

Provide feedback on how students found the lesson and ask if they have any questions.

6. Closure (5 minutes)

Remind students of the importance of "when" and "while" in both spoken and written English.

Briefly introduce the topic for the next lesson and encourage students to try using these conjunctions in their daily lives.

Homework

As homework, ask students to write a short story using "when" and "while."

Prepare additional quizzes on Redmenta for students to practice further. **Notes:**

Adjust the pace of the lesson according to the students' comprehension levels.

Use interactive methods to ensure active student participation.

Link: https://redmenta.com/tr/solve?ks_id=1672232268&utm_

source=redmenta&utm_medium=worksheet&utm_campaign=worksheet_share



FUTURE JOBS AND FUTURE TENSES

Subject: English

Level: Intermediate

Duration: 40 minutes

Objectives:

- Students will be able to use future tenses (will, going to, present continuous) to talk about future jobs.
- Students will explore different future job roles and discuss their potential.

Applications and platforms used: MagicSchool.ai, Character.ai, Gamma.ai

Created by: Özgür Öktem

Lesson 1: Introduction to Future Jobs and Future Tenses

Materials:

- Whiteboard and markers
- Interactive board
- MagicSchool.ai account
- Character.ai account
- Gamma.ai account
- Flashcards with job roles

Warm-Up (10 minutes):

1. Introduction to Future Jobs:

- Show the slideshow about futuristic jobs. The slideshow created with gamma.ai https://gamma.app/docs/Future-Jobs-7mfhwya2zj8ngpp

- Ask students to predict what these jobs might involve.

Presentation (15 minutes):

2. Teaching Future Tenses:

- Use MagicSchool.ai to generate examples and explanations of future tenses.

- Write sentences on the board using 'will,' 'going to,' and present continuous for future plans.

- Example: 'I will be a space tourism guide,' 'I am going to study AI ethics,' 'I am starting my training next month.'

Practice (10 minutes):

3. Interactive Activity:

- MagicSchool.ai Activity: Use the platform to create a quiz or interactive exercise where students match job roles with future tense sentences.

Wrap-Up (5 minutes):

4. Review and Preview:

- Recap the lesson by asking students to share one sentence about a future job using a future tense.

- Briefly introduce the role-playing activity for the next lesson.

Lesson 2: Practicing Future Tenses through Role-Playing

Duration: 40 minutes

Materials:

- Whiteboard and markers
- Interactive board
- MagicSchool.ai account
- Character.ai account
- Gamma.ai account
- Worksheets on future tenses

Warm-Up (5 minutes):

1. Review of Future Tenses:

- Quickly review the future tenses covered in the previous lesson.

- Ask a few students to share their sentences from the last lesson.

Practice (15 minutes):

2. Group Work:

- Students work in pairs to create sentences about their future job plans using the different future tenses. They can use MagicSchool.ai to check their sentences.

Production (15 minutes):

3. Role-Playing with Character.ai:

- Students use Character.ai to simulate a job interview for a future job. One student interacts with the AI as the interviewer, and the other is the candidate.

- They must use future tenses to talk about their plans and aspirations.

- Example questions: 'What will you be doing in this job?' 'How are you going to prepare for this role?'

Wrap-Up (5 minutes):

4. Review and Feedback:

- Recap the lesson by asking students to share one sentence about their future job using a future tense.

- Provide feedback and correct any mistakes.

Homework:

- Assign students to write a short paragraph about their dream job and how they plan to achieve it, using future tenses. They can use MagicSchool. ai to help with grammar and vocabulary.

Assessment:

- Monitor students' participation during activities and role-plays.

- Review their homework for correct use of future tenses.

Link: https://gamma.app/docs/Future-Jobs-7mfhwya2zj8ngpp



11th grade Guidance Goals

Produces projects that will contribute to society at school

Level: Intermediate

Objectives:

- Supporting students' social emotional development
- Students gain interpersonal skills

Duration: 40 minutes

Applications and platforms used: MagicSchool.ai, app.twee.com, Gamma.ai, YouTube

Created by: Özgür Öktem

Lesson 1: Introduction to Future Jobs and Future Tenses

Materials:

- Whiteboard and markers
- Interactive board
- MagicSchool.ai account
- -https://app.twee.com/
- Gamma.ai account

(Let's Warm Up with Some Lead-in Activities! 10 minutes):

Ask students to reflect on a project they have participated in that had a positive impact on their school or community. In pairs, they should discuss what the project was, how it contributed to society, and what they learned from the experience. After a few minutes, invite some pairs to share their stories with the class.

Presentation (15 minutes):

-To raise students' awareness of social problems

- Use MagicSchool.ai to use AI help for social problems

Provide students with a list of social issues (e.g., environmental problems, helping the elderly, promoting literacy). In small groups, ask them to discuss which issue they feel most passionate about and brainstorm project ideas that could address this issue within their school. After 5-7 minutes, have each group present their project idea to the class

Practice (10 minutes):

3. Interactive Activity:

Show students a short video clip or a series of images showcasing various school projects that have positively impacted communities (like a community garden or a recycling program). After watching, lead a brief discussion asking students what they found inspiring about the projects and how they think projects like these can contribute to society.

Link: https://www.youtube.com/watch?v=lLC0ptZ_pJs



Wrap-Up (5 minutes):

4. Review and Preview:

- Summarize the lesson by asking students to share one sentence that will contribute to society.

Homework:

- Ask students to write a short paragraph about their dream project that would contribute to their society and how they plan to achieve it. They can use MagicSchool.ai to help with ideas.

Assessment:

-- Observe students as they present and review their homework to develop interpersonal skills.

Link: https://gamma.app/docs/Contributing-to-Society-Through-Inno-vative-Projects-2tmjg6h2160a3lo?mode=doc



COMPARISON OF THE GRAPHICS OF "f(x+a) and f(x) +a " FUNCTIONS

Subject: Mathematics

Class: 11th grade

Duration: 40 minutes

Objective:

• It is to study what we learned about the topic of 11th grade analytical geometry.

Applications and platforms used: Desmos

Created by: Pinar Agir

INTRODUCTION:

We start with the let's remember activity.

https://teacher.desmos.com/activitybuilder/custom/62b1624288fe24eb537ac12a?lang=tr&collections=62b5656bb74e7c414def882b#preview/49ac0 718-9f5f-4efd-a8ae-899cb6aa2a83



https://teacher.desmos.com/activitybuilder/custom/62b1624288fe24eb537ac12a?lang=tr&collections=62b5656bb74e7c414def882b#preview/9bf22 8a8-8b5c-4aad-a5e4-375fb9f94409



https://teacher.desmos.com/activitybuilder/custom/62b1624288 fe24e-b537ac12a?lang=tr&collections=62b5656bb74e7c414def882b#preview/47ce7602-471d-4087-83d0-bd0086313648



We attract attention to the subject by discussing these events. **MAIN SECTION:**

We make our graphic designs. We see that the graph of quadratic functions is a parabola.

https://teacher.desmos.com/activitybuilder/custom/62b1624288fe24eb537ac12a?lang=tr&collections=62b5656bb74e7c414def882b#preview/9fb3244c-904a-49f5-a31f-45a664f8ed1a



We interpret the given graph mathematically.

https://teacher.desmos.com/activitybuilder/custom/62b1624288 fe24e-b537ac12a?lang=tr&collections=62b5656bb74e7c414def882b#preview/5b-441f8a-6387-4010-a6e6-1579973d91d2



We work on daily life examples

https://teacher.desmos.com/activitybuilder/custom/62b1624288fe24e-b537ac12a?lang=tr&collections=62b5656bb74e7c414def882b#preview/362cf747-26a7-4086-9c49-510d618d9520



CONCLUSION AND EVALUATION:

We add fun to our lessons with the "Get the stars" activity. With this activity, we use all the features we learned together.

https://teacher.desmos.com/activitybuilder/custom/62b1624288fe24eb537ac12a?lang=tr&collections=62b5656bb74e7c414def882b#preview/ b8ddb62c-c222-442f-ac86-386fae5e28ca



Gains:

Students can interpret the given parabola. They can create a parabola by writing an equation. Can compare graphs of given functions and examine their variants.

Link: https://teacher.desmos.com/activitybuilder/custom/62b-1624288fe24eb537ac12a?lang=tr



MITOSIS WITH EXPONENTIAL FUNCTION CELL

Subject: Mathematics

Class: 9th grade

Duration: 40 minutes

Objective:

• The aim of the course is to determine the areas of use of mathematics in daily life.

Applications and platforms used: Desmos

Created by: Pinar Agir

INTRODUCTION:

In this course, students review the concepts of integer exponents with the expectation of extensive study of exponent rules and scientific notation in future courses.

https://teacher.desmos.com/activitybuilder/custom/62b564cf279f1740b-57da372?lang=tr&collections=62b565e069ece1b6de683d40#preview/ d802ffbf-7b01-4a84-b2c4-6bbf98e1b053



https://teacher.desmos.com/activitybuilder/custom/62b564cf279f1740b-57da372?lang=tr&collections=62b565e069ece1b6de683d40#preview/85f-dc223-5bcb-41d2-ace4-ba9bca1cbaa2



https://teacher.desmos.com/activitybuilder/custom/62b564cf279f1740b-57da372?lang=tr&collections=62b565e069ece1b6de683d40#pre-view/15021274-928f-4eae-9aa2-d1f67a8603fa



MAIN SECTION:

In the first part of the lesson, exponents are introduced with an animation showing repeated doubling, not unlike cell mitosis. The work here supports students' understanding of `2`as the result of doubling five times or five factors of two.

https://teacher.desmos.com/activitybuilder/custom/62b564cf279f1740b-57da372?lang=tr&collections=62b565e069ece1b6de683d40#pre-view/3f6fd590-4180-49d5-a6f2-ca5d5f81a0fa



https://teacher.desmos.com/activitybuilder/custom/62b564cf279f1740b-57da372?lang=tr&collections=62b565e069ece1b6de683d40#pre-view/0aae4f8c-93ed-4093-8a41-9e4bf3d51ce9



https://teacher.desmos.com/activitybuilder/custom/62b564cf279f1740b-57da372?lang=tr&collections=62b565e069ece1b6de683d40#preview/ 5faee61d-3dc7-4c52-b107-8a899e7cd36b



https://teacher.desmos.com/activitybuilder/custom/62b564cf279f1740b-57da372?lang=tr&collections=62b565e069ece1b6de683d40#preview/19c2f3fc-e4ea-4c17-b44d-a07a382af7d8



CONCLUSION AND EVALUTAION:

This visual comes up later in the lesson as students consider the multiple stages of doubling and how they can use exponential notation to compare the relative size of numbers.

https://teacher.desmos.com/activitybuilder/custom/62b564cf279f1740b-57da372?lang=tr&collections=62b565e069ece1b6de683d40#preview/ d3e58701-0b45-49d2-8e05-7acfa98e35e1



https://teacher.desmos.com/activitybuilder/custom/62b564cf279f1740b-57da372?lang=tr&collections=62b565e069ece1b6de683d40#preview/2234bab0-c7fe-499b-8640-fc13613a46a7



Gains:

Students can perform operations with exponents.

They discover that mathematics is all around us.

They can compare the numbers and make comments.

Link: https://teacher.desmos.com/activitybuilder/custom/62b-564cf279f1740b57da372?lang=tr&collections=62b565e069ece1b6de683d40



ITALY

I.I.S.S. "Licei Canudo-Marone"- ITI "Galilei", Gioia del Colle



Transnational management meeting





Workshop - Italy

'FAHRENAIT 451' BY BRADBURY

Subject: IMPORTANCE OF READING: ANALYSIS 'Fahrenait 451' by Bradbury

Class: grade 13

Duration: 3 hours

Type of the lesson: mixed

Competences and skills:

- to listen and comprehend cultural speech
- to read and understand sociological and literary articles
- to retain and recall information,
- to have effective communication between team members
- to develop critical thinking, communication, teamwork,
- to develop time management, observation
- to develop digital skills
- to develop creativity

Applications and platforms used: Genially, WordWall, Youtube

Created by: Pietrina De Giorgi

Link: https://view.genially.com/670a260625be46091c8a1592/presentation-fahrenheit-451



MEDICAL INVENTIONS_DURING WORLD WAR II

Subject: MEDICAL INVENTIONS_ DURING WORLD WAR II

Class: grade 13

Duration: 3 hours

Type of the lesson: mixed

Competences and skills:

- to listen and comprehend
- to read and understand historical events
- to retain and recall information,
- to have effective communication between team members
- to develop critical thinking, communication, teamwork,
- to develop time management, observation
- to develop digital skills
- to develop creativity

Applications and platforms used: Genially, WordWall, Youtube, Canvas

Created by: Pietrina De Giorgi

Link: https://view.genially.com/66fd52cc691de0ff62c66951/presentation-medical-inventions-during-in-wwii



EVERYDAY INVENTION DURING WWII

Subject: EVERYDAY INVENTION DURING WWII

Class: grade 13

Duration: 3 hours

Type of the lesson: mixed

Competences and skills:

- to listen and comprehend everyday language and scientific language
- to read and understand historical vocabulary
- to retain and recall information,
- to have effective communication between team members
- to develop critical thinking, communication, teamwork,
- to develop time management, observation
- to develop digital skills
- to develop creativity

Applications and platforms used: Genially, WordWall, Youtube, Canvas

Created by: Pietrina De Giorgi

Link: https://view.genially.com/670016312dcc5cc854f60596/presentation-everyday-inventions-during-world-war-ii



LET'S EXPLORE JAMES JOYCE

Subject: LET'S EXPLORE JAMES JOYCE

Class: grade 13

Duration: 3 hours

Type of the lesson: mixed

Competences and skills:

- to listen and comprehend
- to read and understand literary vocabulary
- to retain and recall information,
- to have effective communication between team members
- to develop critical thinking, communication, teamwork,
- to develop time management, observation
- to develop digital skills
- to develop creativity

Applications and platforms used: Genially, WordWall, Youtube, Canvas

Created by: Pietrina De Giorgi

Link: https://view.genially.com/67097bfb5d9f16c298a887b4/presentation-lets-explore-james-joycepresentazione-lavagna



DIGITAL CITIZENSHIP

Subject: DIGITAL CITIZENSHIP

Class: grade 13

Duration: 3 hours

Type of the lesson: mixed

Competences and skills:

- to listen and comprehend
- to read and understand sociological and scientific articles
- to retain and recall information,
- to have effective communication between team members
- to develop critical thinking, communication, teamwork,
- to develop time management, observation
- to develop digital skills
- to develop creativity

Applications and platforms used: Genially, WordWall, Youtube, Canvas

Created by: Rosa Taranto and Pietrina De Giorgi

Link: https://view.genially.com/670bceb51d2f443b68267c97/presentation-digital-citizenship



GREEN CITIES

Subject: GREEN CITIES

Class: grade 13

Duration: 3 hours

Type of the lesson: mixed

Competences and skills:

- to listen and comprehend
- to read and understand sociological and scientific articles
- to retain and recall information,
- to have effective communication between team members
- to develop critical thinking, communication, teamwork,
- to develop time management, observation
- to develop digital skills
- to develop creativity

Applications and platforms used: Genially, WordWall, Youtube, Canvas

Created by: Pietrina De Giorgi

Link: https://view.genially.com/6702250a8503f89b0c09ae9a/presentation-reflecting-on-green-cities



RATIONS AND PROPORTIONS

Subject: Mathematics

Class: 1 (grade 9-10)

Duration: 30 minutes

Type of the lesson: interactive lesson, to stimulate participation; the practical application of the discipline's specific skills through group work

Competences and skills:

- Use calculation techniques and procedures safely in real life contexts
- Application of the proportions properties
- Solving problems in real-world settings
- Clearly outline the resolution procedures
- Able to propose similar problems

Applications and platforms used: Genially

Created by: Taranto Rosa

Link: https://view.genially.com/5f9a9f0f6566810d350576b4/presentation-rapporti-e-proporzioni



"QUIZ ON THE LINE (NO. 2)"

Subject: Mathematics

Class: 2 (grade 10-11)

Duration: 30 minutes

Type of the lesson: preparation for written test

Competences and skills:

- Using the language and methods of mathematics to organize and evaluate qualitative and quantitative information.
- To be able to operate in the Cartesian plane, deriving properties and characteristics
- To know how to recognize the equations of the lines in particular positions
- Being able to solve geometry problems by giving an analytical interpretation

Applications and platforms used: Genially

Created by: Taranto Rosa

Link: https://view.genially.com/5fbd4b971670610d0dfcdaee/learning-experience-challenges-retta-quiz-n2



"QUIZ ON THE LINE (NO. 1)"

Subject: Mathematics

Class: 2 (grade 10-11)

Duration: 30 minutes

Type of the lesson: participatory lesson and group activities

Competences and skills:

- Using the language and methods of mathematics to organize and evaluate qualitative and quantitative information.
- To be able to operate in the Cartesian plane, deriving properties and characteristics.
- To know how to recognize the equations of the lines in particular positions.
- Being able to solve geometry problems by giving an analytical interpretation.

Applications and platforms used: Genially

Created by: Taranto Rosa

Link: https://view.genially.com/5fb90c40c48a490d2894ef39/learning-experience-challenges-retta-quiz



"CALCULATIONS WITH MONOMIALS"

Subject: Mathematics

Class: 1 (grade 9-10)

Duration: 1 hour

Type of the lesson: interactive lessons to encourage active participation and practice of discipline-specific skills through group work

Competences and skills:

- To know and understand the first elements of literal calculation
- Knowing the properties of monomials and working with them
- Knowing how to simplify expressions with monomials
- Use calculation techniques and procedures safely in real-life contexts
- Solving problems in real-world settings

Applications and platforms used: Genially

Created by: Taranto Rosa

Link: https://view.genially.com/5fc28601c852dd0d36380b48/learning-experience-challenges-monomi-quiz



"A LINE IN THE CARTESIAN PLANE"

Subject: Mathematics

Class: 1 (grade 9-10)

Duration: 1 hour

Type of the lesson: interactive lessons to encourage active participation and practice of discipline-specific skills through group work.

Competences and skills:

- Use calculation techniques and procedures safely in real-life contexts
- Applying the knowledge inherent in the line in the Cartesian plane
- Clearly outline the resolution procedures
- Being able to propose similar problems

Applications and platforms used: Genially

Created by: Taranto Rosa

Link: https://view.genially.com/5fb90c40c48a490d2894ef39/learning-experience-challenges-retta-quiz-n1



"QUIZ ON THE LINE (NO. 2)"

Subject: Mathematics

Class: 2 (grade 10-11)

Duration: 30 minutes

Type of the lesson: preparation for written test

Competences and skills:

- Use the language and methods of mathematics to organize and evaluate qualitative and quantitative information.
- Know how to work in the Cartesian plane, derive metric properties and characteristics.
- Knowing how to recognize the equations of lines at certain positions
- Be able to solve geometry problems by giving an analytical interpretation

Applications and platforms used: Genially

Created by: Taranto Rosa

Link: https://view.genially.com/5fbd4b971670610d0dfcdaee/learning-experience-challenges-retta-quiz-n2



"QUIZ ON THE LINE (NO. 1)"

Subject: Mathematics

Class: 2 (grade 10-11)

Duration: 30 minutes

Type of the lesson: participatory lessons and group activities

Competences and skills:

- Use the language and methods of mathematics to organize and evaluate qualitative and quantitative information.
- Know how to work in the Cartesian plane, derive metric properties and characteristics.
- Knowing how to recognize the equations of lines at certain positions
- Be able to solve geometry problems by giving an analytical interpretation

Applications and platforms used: Genially

Created by: Taranto Rosa

Link: https://view.genially.com/5fb90c40c48a490d2894ef39/learning-experience-challenges-retta-quiz



THE BINARY SYSTEM & BINARY ARITHMETIC OPERATIONS

Subject: Mathematic and computer science

Class: 1 (grade 9-10)

Duration: 90 minutes

Type of the lesson: interactive lesson, inclusive learning experiences where groups of students cooperate and compete against each other.

Competences and skills

- Introduction about digital system and knowing the importance of the binary system
- Knowing how binary numbers work and counting in Binary System
- Conversions decimal numbers in binary format and viceversa
- Performing basic arithmetic operations (+,-,*,÷) using binary system **Applications and platforms used: Genially**

Created by: Taranto Rosa

Link: https://view.genially.com/67057b97930d0c7ba75fefed/learning-experience-didactic-unit-the-binary-system-and-binary-arithmetic











Workshop - Romania

