



Games for Learning
Algorithmic Thinking

Workshop 2: PBL, online quizzes and logical tasks

Session 4: Group work – Exploring existing games

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Outline

- Choice from the Macedonian teachers
- Games in classroom
 1. General
 2. English
 3. Mathematics
 4. Geography
 5. Developing imagination



1. Science for kids



- <http://www.sciencekids.co.nz/gamesactivities.html>
- Fun science games for kids while learning more about science and technology.
- Free online activities to try with something for everyone
 - Animals
 - Plants
 - Chemistry
 - biology
 - Physics
 - space, magnets, electricity, forces, light, sounds, gases or other science related topics.

Science
Games for Kids



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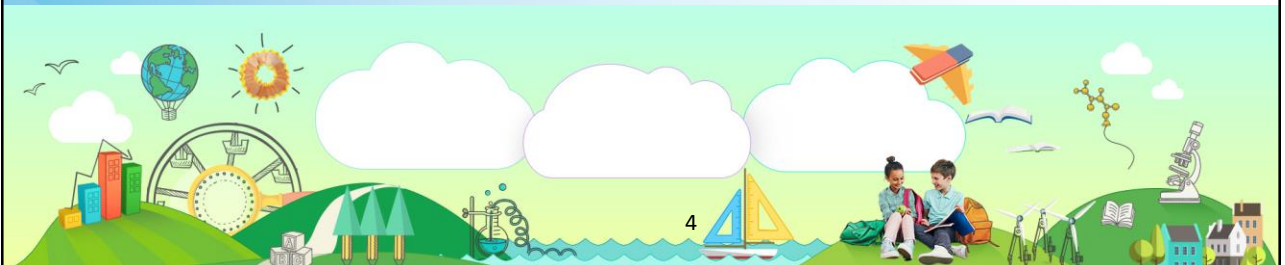


1. IXL



- <https://www.ixl.com>
- Immersive, adaptive learning
- Math - Language – arts - Science
- K12 education
- 10 Free practice problems

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2. English



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2. Teach your monster to read



- <https://www.teachyourmonstertoread.com>

Game that makes learning to read fun

- Covers **everything** from **letters** and **sounds** to reading **full sentences**.
- Designed in collaboration with **leading academics**.
- **Complements** all synthetic phonics programmes used in schools.
- Computer version is **100% free**.



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2. Learn english, kids

- <https://learnenglishkids.britishcouncil.org/en/games>
- playing games in English
- lots of fun games to play.
- You can also post comments!
- Options
 - Listen and watch
 - Read and write
 - Speak and spell
 - Fun and games...



3. Learn mathematics!



3.1 Mathplayground

- <https://www.mathplayground.com/games.html>



WHAT'S NEW AT MATH PLAYGROUND?

FRACTION ADVENTURES, THINKING BLOCKS, TEACHING TOOLS, AND MUCH MORE!



Math Playground

Give your Brain a Workout

3.2 Mathsisfun

- <https://www.mathsisfun.com>
- Home
- Algebra
- Data
- Geometry
- Measure
- Numbers
- Dictionary
- Games
- Puzzles
- Worksheets



3.3 Adapted mind



- <http://www.adaptedmind.com>
- Math and reading
- All grades
- Requires to become a member



3.4 Transum



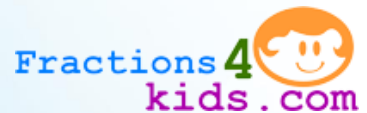
- <http://www.transum.org>
- FREE mathematical activities, puzzles, problems, visual aids, investigations and lots more.
- Enter Transum Maths to see how teaching and learning this fascinating subject can be fun.



3.5 Fractions!!



- <http://www.fractions4kids.com>
- **Fractions games** are on the following math topics :
 - *equivalent fractions game,*
 - *add fractions*
 - *converting fractions into decimals*
 - *fraction word problem games, subtracting mixed fractions games etc.*
- These games are for children in **kindergarten, 1st, 2nd, 3rd, 4th, 5th and 6th grades**



4. Travel the world! Geography



- <http://www.sheppardsoftware.com/Geography.htm>
- By playing Sheppard Software's geography games, you will gain a mental map of the
 - world's continents
 - Countries
 - capitals
 - landscapes!



Geography Games



5. Develop your creativity

- Creative thinking



5.1 Minecraft

- <https://minecraft.net>
- The game allows players to build with a variety of different cubes in a 3D procedurally generated world, requiring creativity from players.
- Other activities in the game include exploration, resource gathering, crafting, and combat.
- Cost – 23\$
- Delighted users



5.2 Roblox



- <https://www.roblox.com>
- Roblox is the best place to Imagine with Friends. With the largest user-generated online gaming platform, and over 15 million games created by users, Roblox is the #1 gaming site for kids and teens (comScore).
- You can create adventures, play games, role play, and learn with their friends in a family-friendly, immersive, 3D environment.



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And one more ... Commonsense



- <https://www.commonsense.org/education/top-picks/resources-for-problem-solving-and-21st-century-skills>
- Resources for Problem-Solving and 21st-Century Skills
- Problem-solving through
 - physics games
 - sharpen communication skills
- Apps, games, and websites that get kids designing and building inventions, strategizing how to best solve a math or language puzzle, and collaborating to make tough ethical decisions.

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