

MathArena

Learning. Maths. Playfully.



ABOUT US



Gerald Infanger

Studies: Mathematics & Theology, Psychology

CEO Creator, gamification, Content Design



Eva-Maria Infanger

Study: Mathematics & Theology

CCO Maths didactics at the JKU Linz, adaptive item difficulties





















Communication - Cooperation - Collaboration



www.edtechtalents.eu

CHALLENGES & SOLUTION





Students are frustrated

Private tutoring is expensive

Lack of competent technicians



Playful approach

Easy access

7

Instant reward

Low-cost

Wider understanding of basic math skills

Interest in logic & technology

MATHARENA JUNIOR

Basic Mathematics

For Junior High, and Apprenticeships



MATHARENA CLASSIC

Advanced Mathematics

For High School, University Transition







INDONESIAN TRANSLATION



Pasttita Ayu Laksmiwati



Yanti Purnamasari



INNOVATION



Trends for Learning:





Digitalia 2023

- Microlearning
- AI-based (smart adaptive, math bot)
- Mobile & remote





Psychological Approach

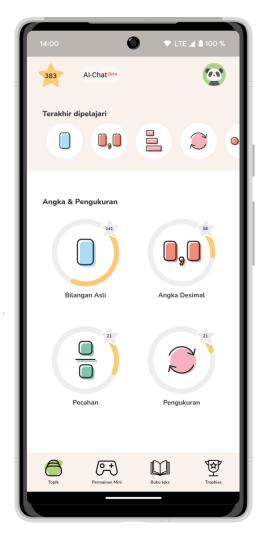
- Learner-oriented focus
- Minigames about maths
- Adaptive learning difficulty

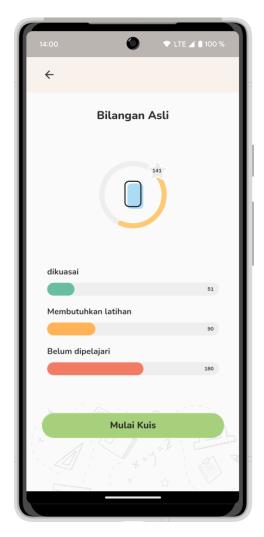


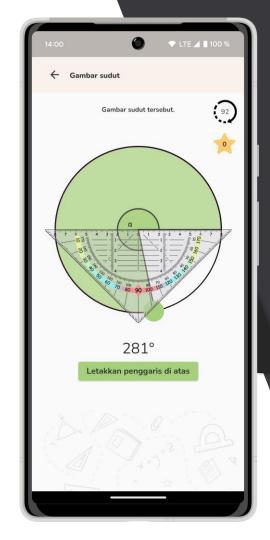
Gold 2021



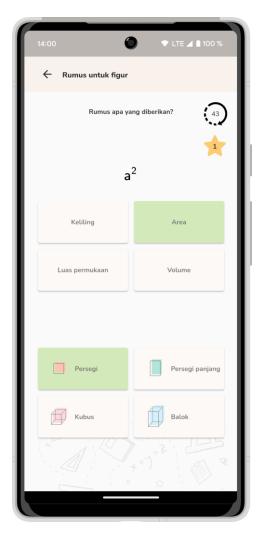
We are making learning more effective and enjoyable!

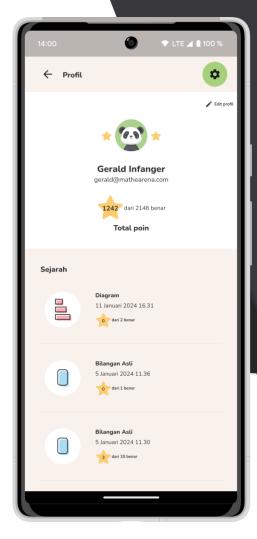






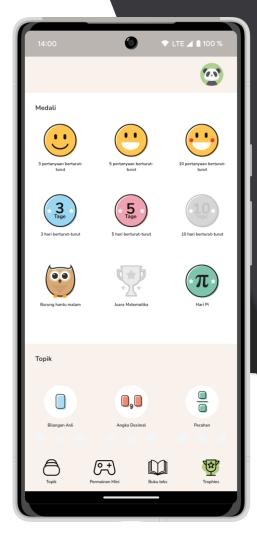












MATHARENA AS A LEARNING TOOL

TRAINING (Process of **Learning**)

- Exploring, experiencing,...
- Trial-and-Error
- Mistakes are desirable ground we learn on
- Main goal: Motivation
 (hopefully intrinsic)

TESTING (Diagnosis **after** Learning)

- Delivering
- Correct Results
- Errors must be avoided
- Extrinsic motivation



STUDY AT AUSTRIAN SCHOOL



4 classes with a total of 83 students, Result: Learning performance increases because of more time investment.

It's not the medium, that does the trick – it's the user journey that gives more motivation.

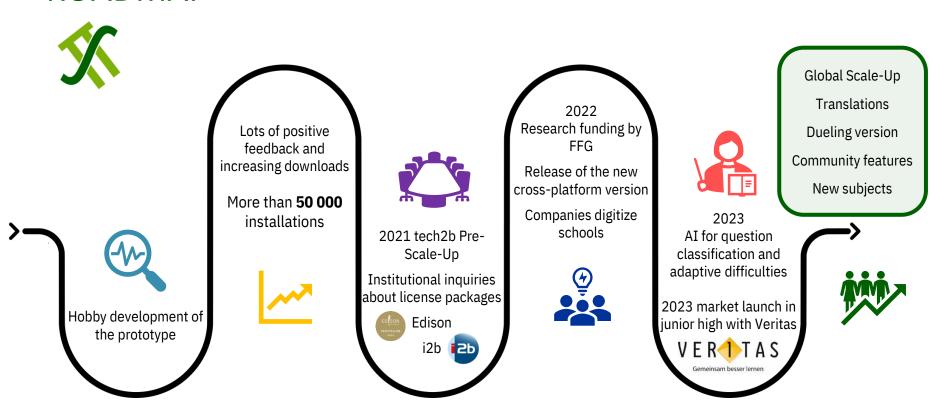


DATA PROTECTION

- importance of data privacy and security
- minimal personal information from users
- completely anonymized data analytics
- educational purposes



ROADMAP



Starting in September 2023, we will provide 25% of Austrian lower secondary students.

TEAM

Development & Research



Doris Kayser



Corinna Hörmann



Christoph Willinger



Florian Sobieczky

Content



Thomas Benesch



Annika Scheithe

Marketing



Irene Heindl















Main Goal



Directly addressed





Indirectly addressed goals













GOALS

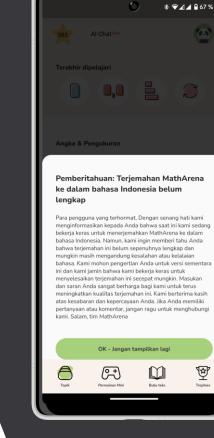
Mathematics is ...

- creating ?

x = cos(t) $y = \sin(t) + |\cos(t)|^0$

- making
 - $x^2 + y^2 = 9$
 - - y = |-2x|
 - $x = -3/\sin y$





* ♥⊿⊿ 🗎 67 %



Want to see more?

JOIN THE MATHEARENA!

www.mathearena.com info@mathearena.com

