

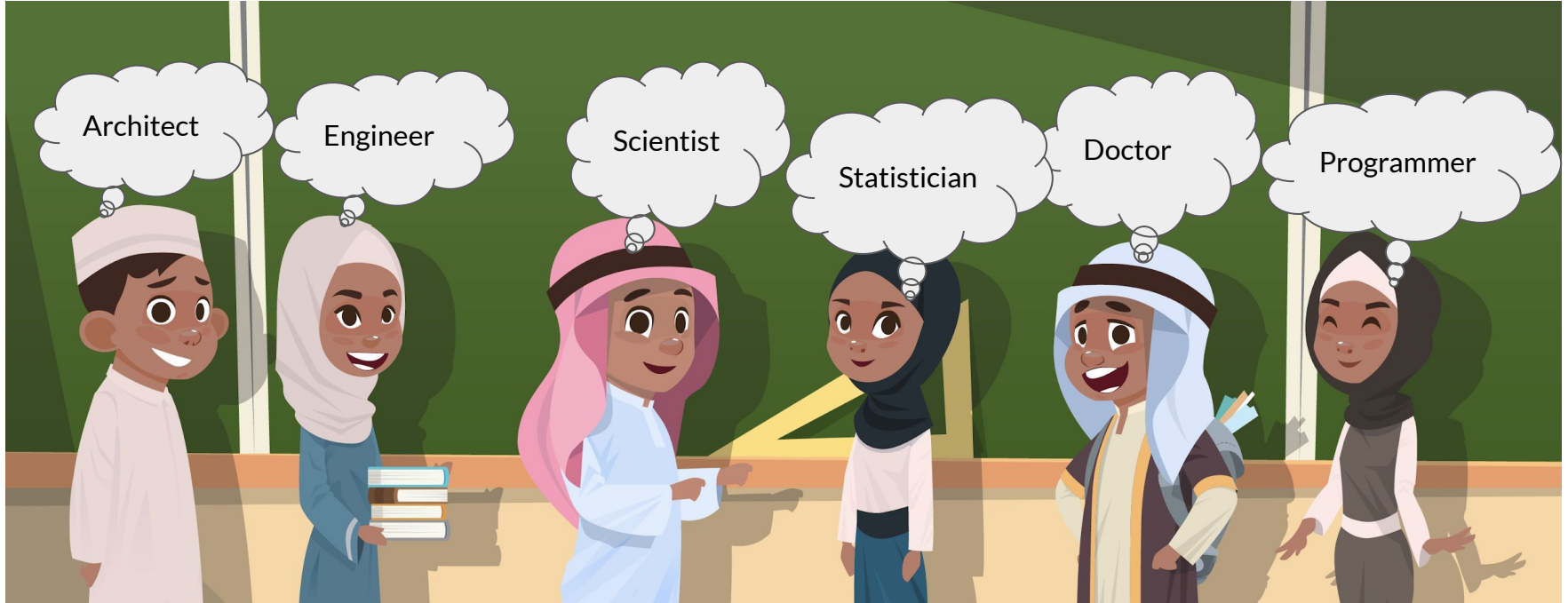


The “M” in STEM

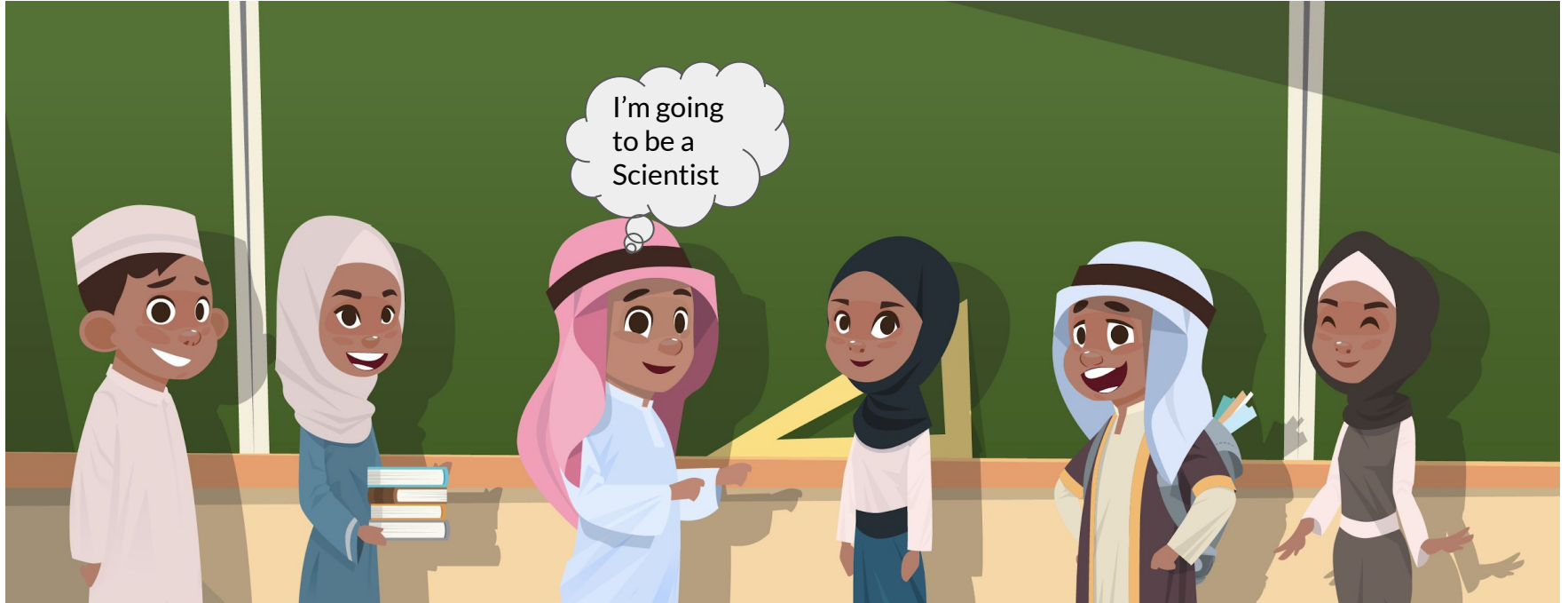
Powering Critical Thinking with Immersive & Engaging Mathematics

matific

What We Need...



What We Have...



The Problem: Mathematics Education Crisis

Teachers are Generalists

Most primary school teachers (grades 1-6) did not specialise in mathematics, they specialised in **Teaching**.

Insufficient conceptual understanding leads to an over-emphasis on teaching **Procedures**.

Teaching Procedures

Most books and digital resources tend to teach procedures at the expense of teaching **conceptual understanding**.

Conceptual understanding is the key to building a positive attitude towards mathematics.

Math Anxiety

Math anxiety is a cross-cultural phenomenon.

Learning of mathematics provokes **fear** and **anxiety**, leading to underachievement and abstention from STEM.

Governments Investing In **STEM** Education

STEM

Current Way of Learning Math: Word Problems

Julia made a necklace.
She used 3 red beads,
and 2 green bead.

How many beads

John made a necklace.
She used 2 red beads,
and 3 green bead.

How many beads Julia

Julio made a necklace.
She used 4 red beads,
and 1 green bead.

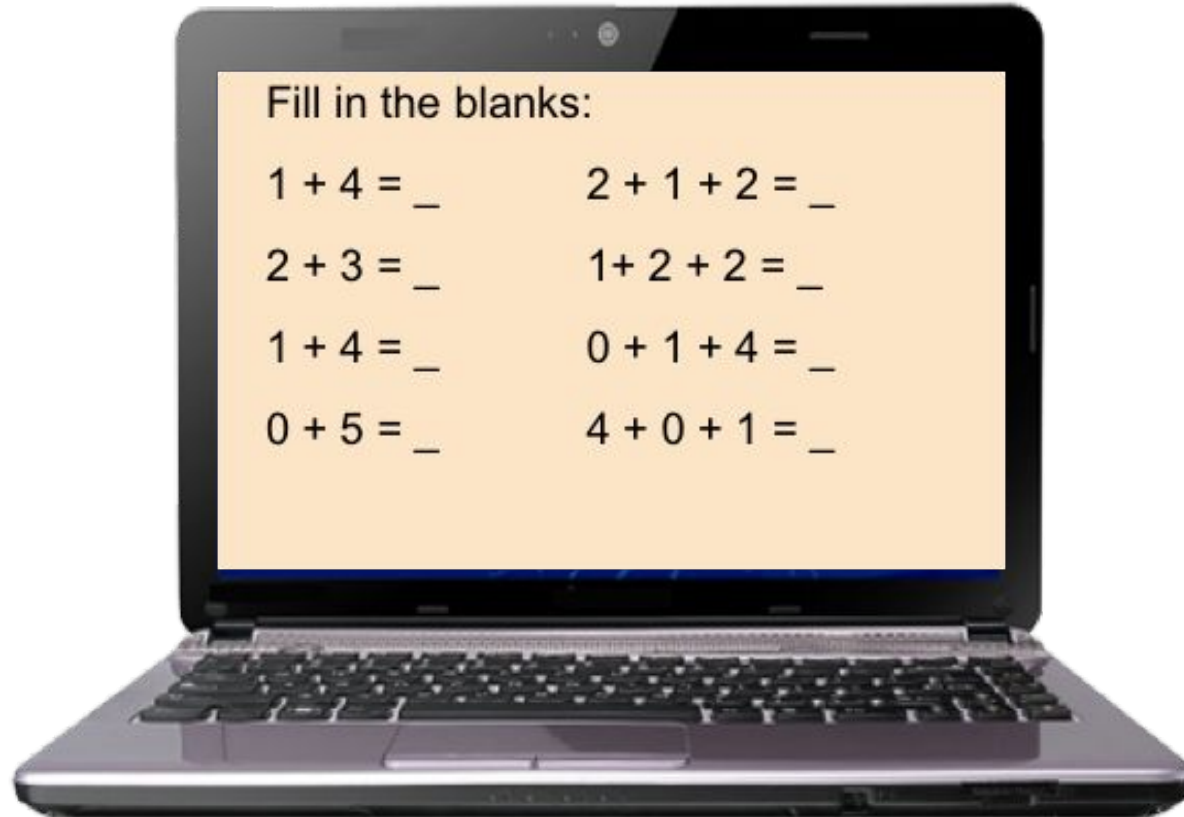
How many beads Julia used?

word problems...

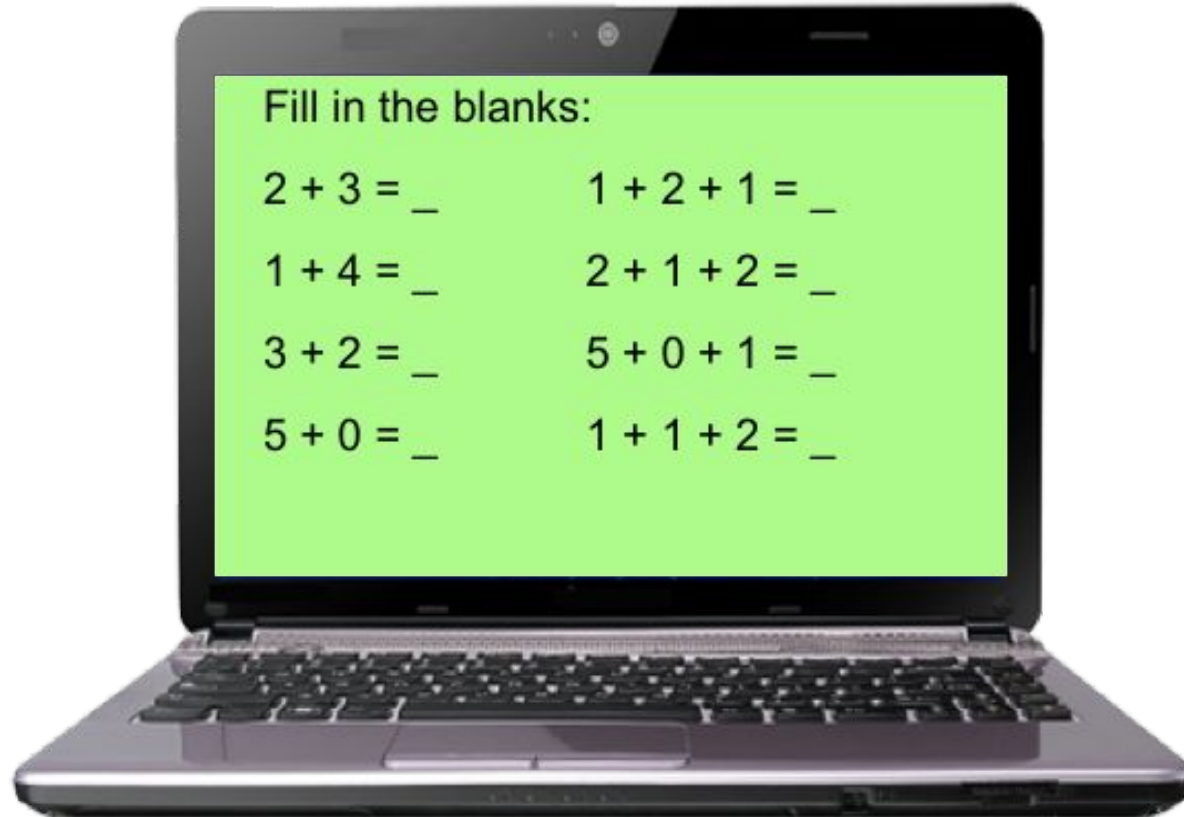
Current Way of Learning Math: Worksheets



Educational Technology: Most Common Solution



Educational Technology: Most Common Solution



Educational Technology: **Most Common Solution**



The Matific Way: 10 Key Pedagogical Principles

Conceptual Understanding

Learning by Doing

Concrete-to-Abstract

Exploiting Technology

Motivated Mathematics

Engagement

Problem Solving

Adaptive Feedback

Spiral Learning & Seeding Ahead

The Heterogeneous Classroom

The Matific Way: Conceptual Understanding



The Matific Way: Adaptive Feedback



$$\begin{array}{r} 141 \\ + 156 \\ \hline 627 \end{array}$$

The Matific Way: Concrete to the Abstract



The Matific Way: Concrete to the Abstract



The Matific Way: Concrete to the Abstract



The Matific Way: Problem Solving & Critical Thinking



Matific Around the World

Curriculum Aligned in over 50 Countries & 35+ Languages



*Matific currently works with
Ministries of Education on
nearly every continent*

Matific is a Multi-Award Winner

Matific wins education technology awards every year

Best Formative Assessment Solution

Best Game-Based Curriculum Solution

Best Educational App

//CODiE//
2017 SIIA CODiE WINNER


AWARDS 2017
FINALIST

//CODiE//
2018 SIIA CODiE WINNER

//CODiE//
2019 SIIA CODiE WINNER



Matific Works On **All Devices**



Offline capabilities when using Matific on Tablets or Mobile Phones

Matific Works In **All Settings**

Students have access outside of school, including offline use on personal iPads/tablets.

CLASSROOMS WITH NO INTERNET OR TECHNOLOGY



CLASSROOMS WITH DIGITAL WHITEBOARDS

Teachers incorporate Matific content in lessons as a whole class or group activity.

Teachers set and monitor individual and group work to be completed in class or at home.

CLASSROOMS WITH ONLINE ACCESS LAPTOPS & TABLETS



Matific Around the World

Matific in Argentina



Certain schools have classroom sets of tablets.

Students practice what they learned during the week by playing Matific activities set by the teacher.

Teachers broadcast the same activity to all devices.

Matific Around the World

Matific in Brazil



Teachers bring their students to computer labs to practice what they have been taught.

Some teachers use Matific as a fun way to introduce a new skill or lesson before formal teaching.

Matific Around the World

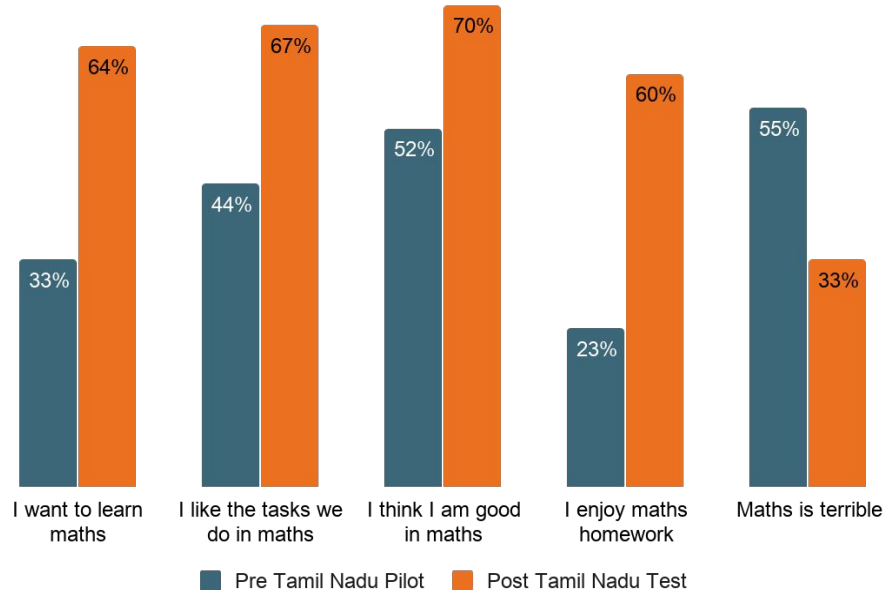
Matific in Ukraine



Teachers use Matific as an in-class teaching resource. Students come to the front of the class and use the interactive whiteboards (e.g. SMART boards) for learning and practice with their classmates.

Matific Around the World

Matific in Tamil Nadu, India



23,000 government school students participated in a pilot during the months of February to June 2019.

Students took a survey prior to the pilot, and then again after the pilot.

Results were astounding!

Matific Around the World

Matific in Saudi Arabia

Matific and Tatweer Company for Educational Services sign agreement in April 2019 to provide program on iEN, National Education Portal.

- Elementary school students across Saudi Arabia can access Matific via Math Club on the iEN National Education Portal.
- Students use Matific in self-study mode and progress through activities based on their grade level.
- Tatweer Company for Educational Services conducted quality assurance review and mapped contents to curriculum & textbooks.

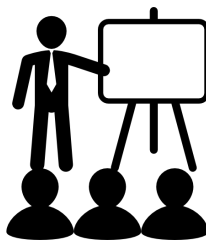


Getting Started with **Matific** in your country



Planning Pilot

Matific is offering a no-cost pilot to every country attending MENA Innovation. Preparations for national pilots typically last two to three months for a pilot of 150-300 schools.



Professional Development

Matific will hire local staff to support the training and development needs of teachers participating in the pilot. All this is at no cost to the Ministry of Education.



End of Pilot Evaluation

At the conclusion of the pilot, Matific will present to the Ministry of Education an evaluation report indicating academic improvement, gains in engagement.

The Matific Vision...



Let's empower today's generation to
develop a passion for mathematics!



If we want more of today's primary school
students to be here in 20 years