

Early Education STEM Science Technology Engineering Mathematics



Erasmus+

2020-1-SI01-KA229-075876
Better Teaching and Learning



“Mia Fora ki Enan Kero”
Greek Kindergarten



Petros Georgiakakis PhD

- **e-Learning Expert - STEM Mentor**
- **STEM teacher** Mia Fora ki Enan Kero private kindergarten
- Lecturer @ **University of Nicosia** "Med in Educational Technology"
- Lab Trainer @ **University of Thessaly** "STEM Teacher Training"
- **Erasmus+ KA1 Teacher Trainer**
- Member of **Hellenic Education Society for STEM (e3STEM)**
- Member of the Scientific Commission for STEAM promotion of **Open Technologies Alliance (GFOSS)**



<https://www.miaforakienankaiops.gr/>



Online CV: <http://georgiakakis.weebly.com>

Email: petrosprojects@gmail.com

Erasmus+ KA1 courses tailored to your needs!

Personalized Trainings available even in small Groups

Course 1:

STEAM IN CLASSROOM
- MULTIPLE
INTELLIGENCES -
MICROLEARNING -
GAMIFICATION - CLIL -
FLIPPING
CLASSROOMS

Course 2:

Hands-on CLIL:
Digital Storytelling
through Multiple
Intelligences - Apps
for Scaffolding your
teaching Pathways

Course 3:

EESTEAM - Early
Education STEAM -
Pedagogical
Innovations for STEM
- STEAM - STREAM
differentiated learning

Course 4:

BYO-STEAM – Build
Your Own STEAM
based in
differentiated
learning paths.

Course 5:

Technology in
Classroom - ICT in the
Digital Era - Tablets
Educational Apps

Course 6:

E-learning
methodologies:
effective Blended
Learning, elearning,
LMS technologies,
Educational
Technology for an
engaging and
motivating learning

Erasmus+ Teacher Training courses

<https://ka1stem.weebly.com/>

SchoolEducationGateway

Europe's online platform for school education


[LATEST](#)
[VIEWPOINTS](#)
[RESOURCES](#)
[ERASMUS+ OPPORTUNITIES](#)
[TEACHER ACADEMY](#)


[Home](#) > [Teacher Academy](#) > [Course catalogue](#) > Search results

Course catalogue

The Course Catalogue contains professional development courses designed for school teachers and staff.



**STE[A]M in Classroom - Multiple
Intelligences - Gamification - Microlearning
- Flipping Classrooms - CLIL**



2 157

November 2021 (3 sessions)

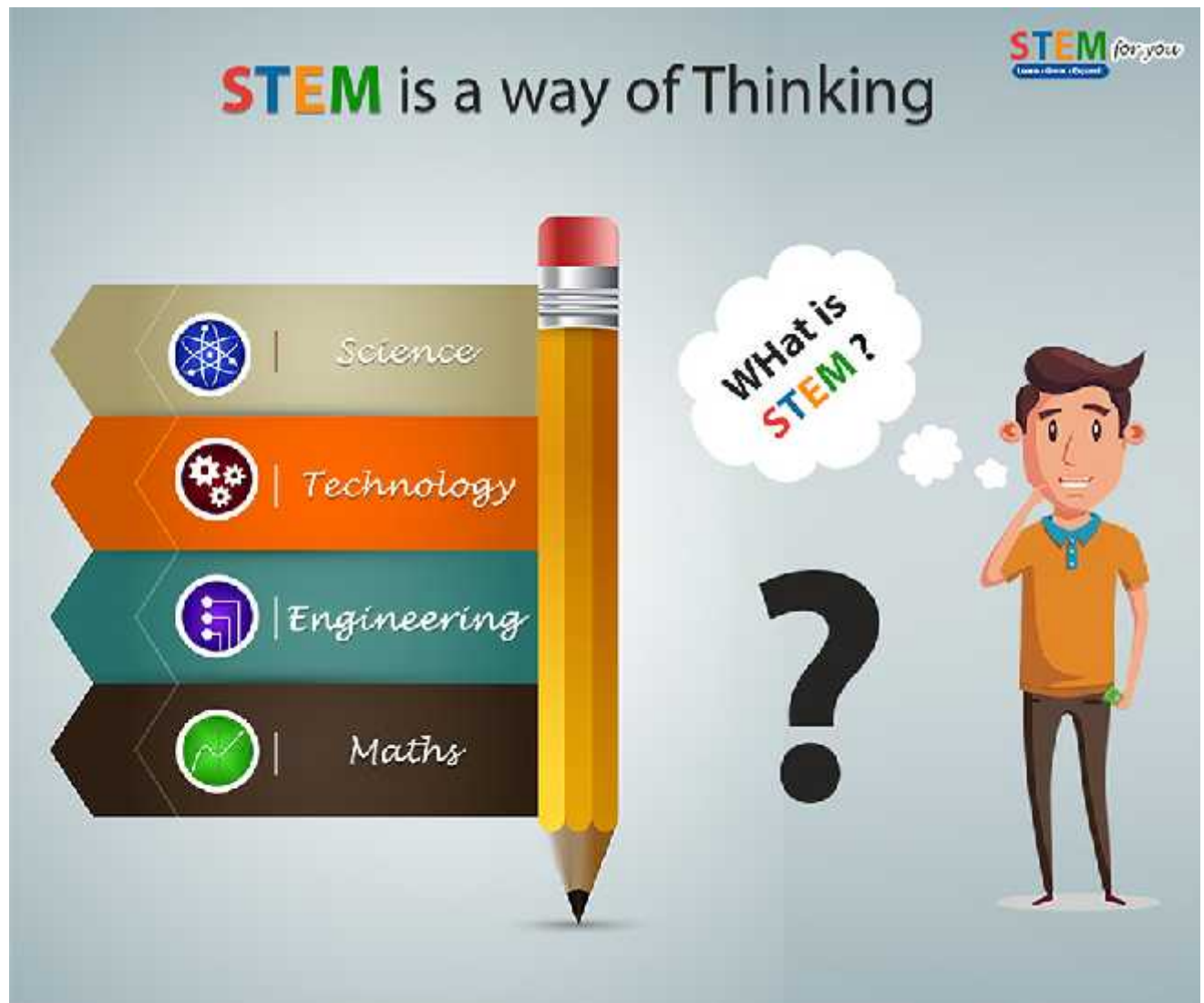
Next upcoming session: 08.11.2021 > 12.11.2021

[See more upcoming sessions](#)

Greece ★ PETROS GEORGIAKAKIS

What is STEM?

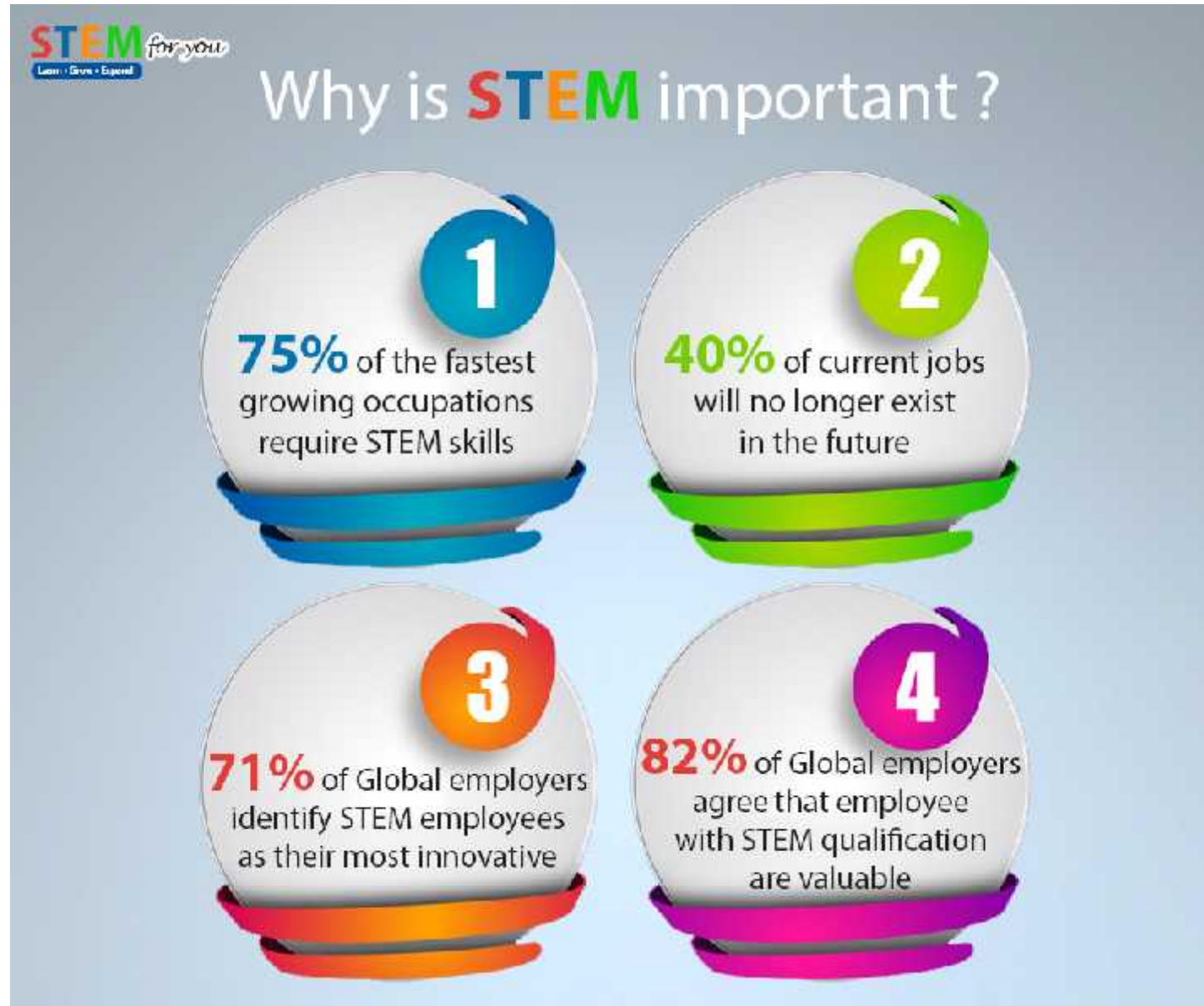
There is no universal definition of STEM, however experts generally agree that STEM workers **use their knowledge** of science, technology, engineering, or math to try to **understand how the world works** and to **solve problems**.



Why STEM?

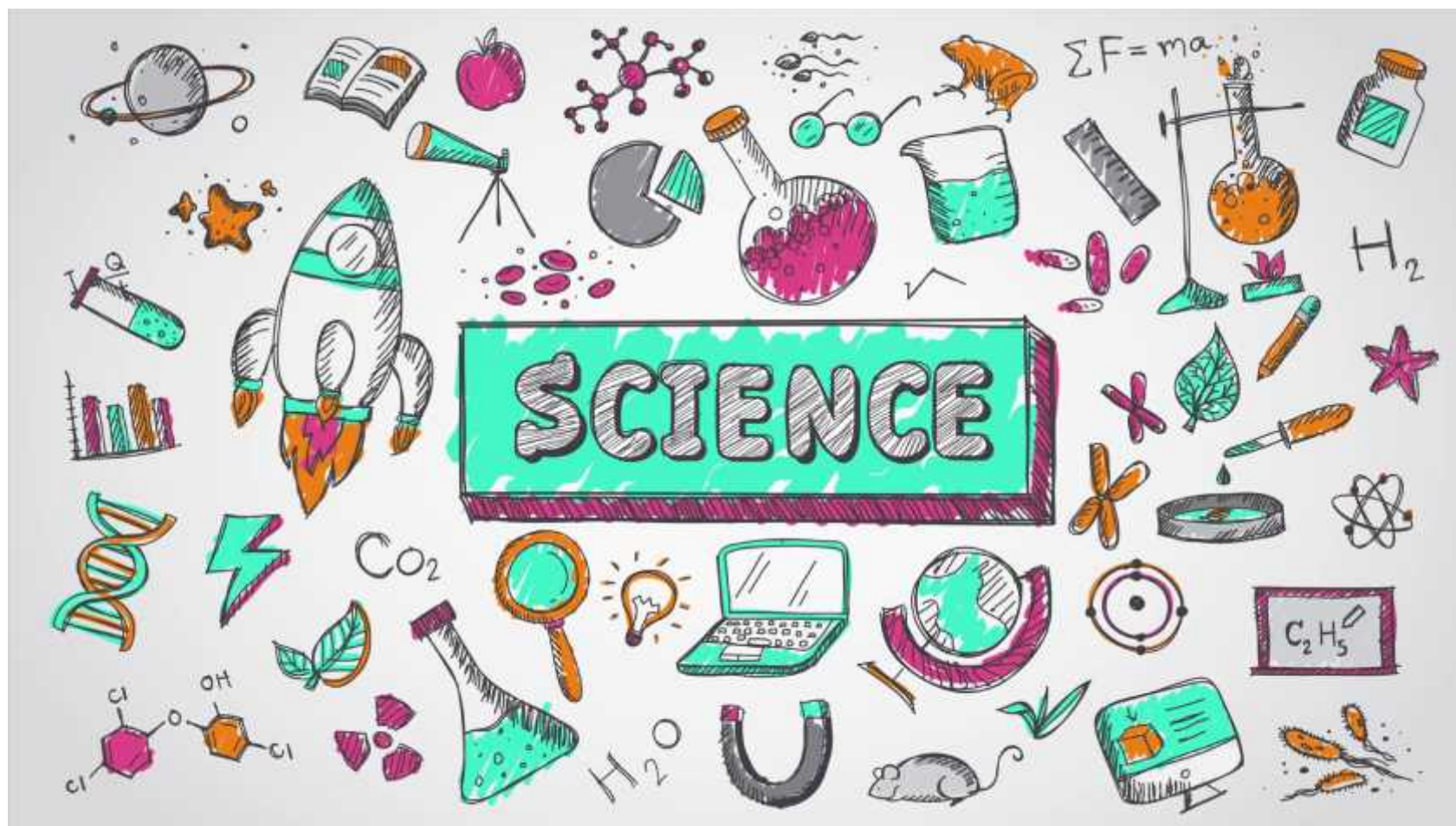
“The future of the economy is in STEM...”

“That’s where the jobs of tomorrow will be.”



What is
Early STEM
All About?





Science is a
way of
thinking



Observing

Science is a way of
thinking

Experimenting



Science is a way of thinking



Making predictions

Science is a way of thinking



Sharing discoveries

Science is a way of thinking

Asking
questions



Science is a way of thinking



Wondering how things works



Technology is a way of doing

Using
tools



Technology is a way of doing

Being
innovative





Technology is a
way of doing

Identifying problems

Technology is a way of doing



Making things work



01

WHAT IS ENGINEERING?



Engineering is a way of doing



Solving problems

Engineering is a way of doing



Using variety of materials

Engineering is a way of doing



Designing

Engineering is a way of doing
Creating



Engineering is a way of doing



Creating
things
that
work

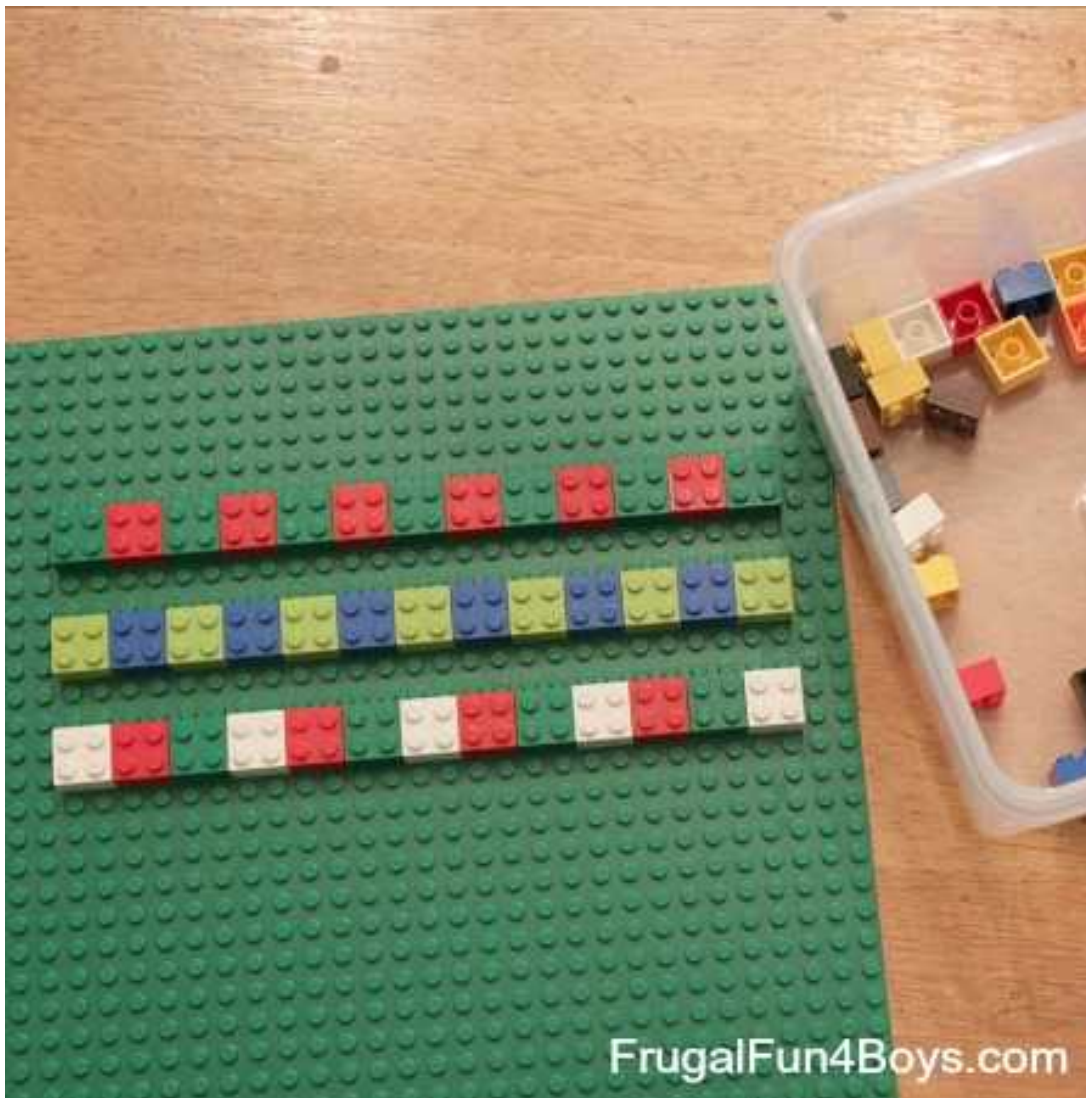


Math is a way of measuring

Sequencing (1,2,3,4,...)

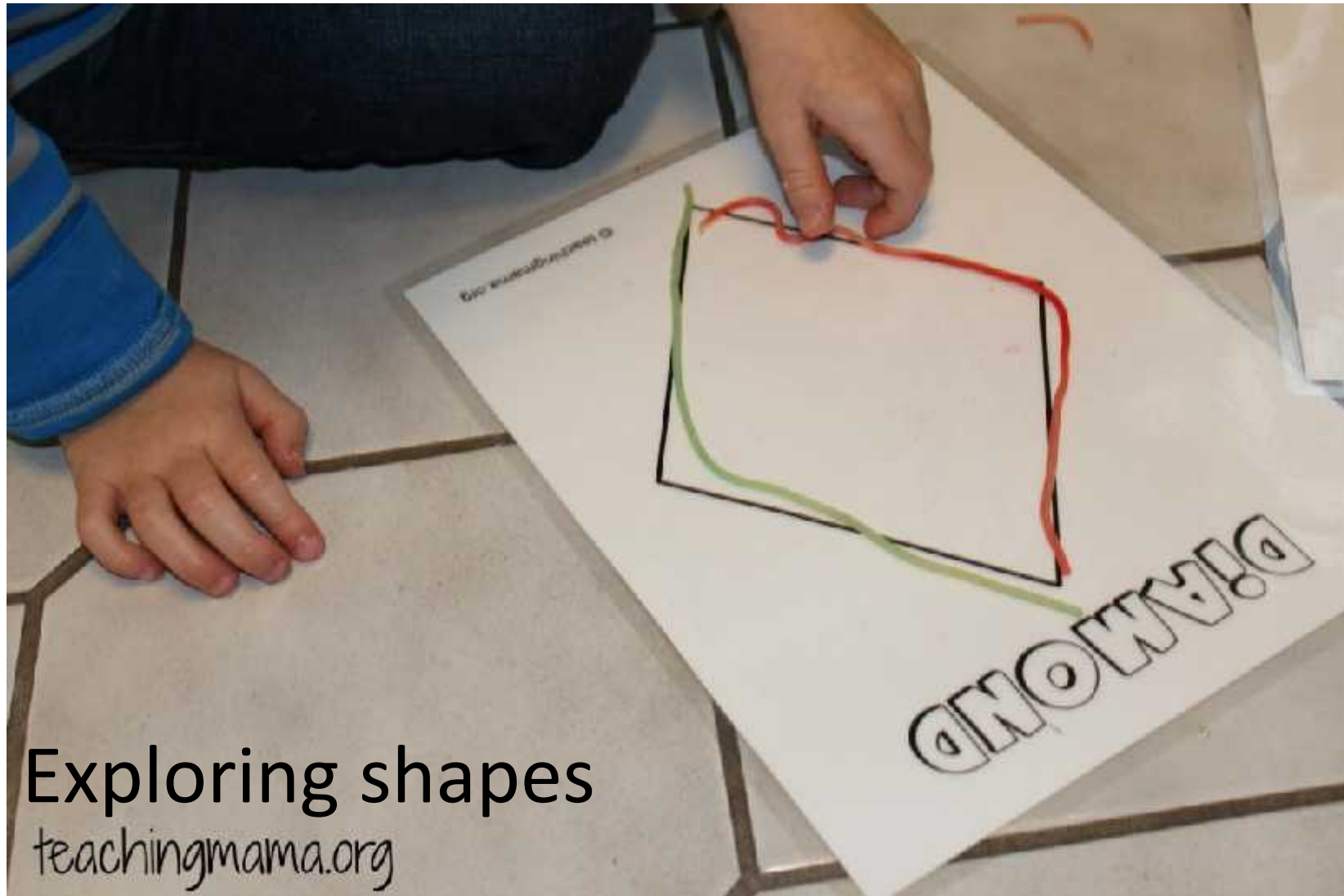


Math is a way of measuring



Patterning
(2,4,6,8,...)

Math is a way of measuring



Math is a way of measuring



Exploring
volume
(holds more or
less)

Math is a way of measuring

Exploring
size
(bigger,
less
than...)



STEM to STEAM to STREAM



STEM



STEAM



STREAM

Science
Technology
Engineering
Mathematics

Science
Technology
Engineering
ARTS
Mathematics

Science
Technology
READING
Engineering
Arts
Mathematics



 Personal WebPage    



Petros Georgiakakis
157 subscribers

CUSTOMIZE CHANNEL

MANAGE VIDEOS

HOME VIDEOS PLAYLISTS CHANNELS ABOUT 

Uploads **PLAY ALL**

 **SORT BY**



KA1 Teacher training
courses: Digital Storytelling...



Dr. Pi presents: STEAM
simple project: make a...



Dr. Pi presents: Simple motor
project - how to create the...



Dr. Pi presents: easy STEM
chemistry experiment Soda...



Dr. Pi Presents: Balloon fire
STEM science experiment -...

Proposed video implementations

- Balloon powered car https://youtu.be/_mQQ3ClzYJA
- Crayon Art <https://youtu.be/fRd-qvO-ou8>
- Art Robot <https://youtu.be/qAcxvqeRHYA>
- Egg Inertia <https://youtu.be/piQ2OdChIPo>
- Carbon sugar snake <https://youtu.be/cqcpHGSY1OY>
- Balloon Race <https://youtu.be/6ciiej0IGxc>
- Balloon on fire <https://youtu.be/dR-R2P-CKyA>
- Balloon Water Fountain <https://youtu.be/qTrl7gHUQN4>

More ideas at <https://www.youtube.com/c/PetrosGeorgiakakis/videos>



Erasmus+

Thank you!

Contact Details

Dr. Petros Georgiakakis

petrosprojects@gmail.com



“Mia Fora ki Enan Kero” Greek private Kindergarten



2020-1-SI01-KA229-075876
Better Teaching and Learning