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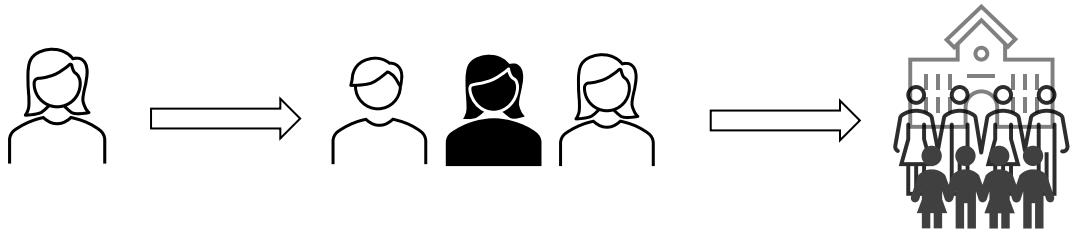
Integrated STEM in a Ferris Wheel



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With the support of European Schoolnet and Texas Instruments

STEM Education Practices in Europe 2018

Online survey in 25 languages (Jun – Oct 2018)
3,780 STEM teachers of students aged 10 to 19

What teaching methods are STEM teachers using today?

79%
Traditional Direct Instruction

44%
Inquiry-Based Science Education

Key findings of the survey

- Traditional instruction remains dominant
- Paper-based materials are used extensively
- Limited time on professional development
- Experience increases innovation
- There is room for collaboration with industry

88% paper-based materials vs
28% on line collaborative tools

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STEM School Label
cell EXPLORERS
Photonics explorer
Fibonacci project
hulda festi
kidsINN science
Chain Reaction
eEngineer
STEM FOR YOUTH
ENJOY. SCIENCE TECHNOLOGY ENGINEERING MATHEMATICS.
GO-LAB
ONLINE LEARNING BY EXPERIMENTING
IncluSMe
Intercultural learning in Science and Mathematics initial teacher education
eCraft2Learn
COMPASS
FEAST
openSKIMR
Primas
PROMOTING INQUIRY IN MATHEMATICS AND SCIENCE EDUCATION ACROSS EUROPE
U4energy
PARISE
NANO Channels
inGenious
ATELIER FOR STE@M
FaSMEd
mascil
PATHWAY
STEM@SCHOOL
Score
ScienceArt@Umbria
spice
Open Schools for Open Societies
PROFILES
nano to TOUCH
ASTRONET
nano dialogue
Make the Link
NANOPINION
Integrated Teaching Project
Bütünleşik Öğretmenlik Projesi
STEM PD Net
European STEM Professional Development Centre Network
bloom
p·o·l·l·e·n
KiiCS
NANO YOU
Nanoinventum
Creando el nanofuturo desde primaria
Se secure
SCIENCE EDUCATION CURRICULUM RESEARCH
UNIVERSE AWARENESS
TEMI
engage
OPEN DISCOVERY SPACE
UniSchooLabS
INQUIRE
M & L Maths&Languages
STEM FOR ALL
BOOSTING SCIENCE
</DIS-C3DE>
timefornano
CREATIONS
Developing an Engaging Science Classroom
SAILS
Strategies for Assessment of Inquiry Learning in Science
DESIRE
ASSISTME
natural europe
GLOBAL excursion
Extended Curriculum for Science Infrastructure Online
SCI
UMI
ED
Hypatia PROJECT
FIT4 FOOD 2030
Science Center To Go
S-TEAM
FIRING UP SCIENCE EDUCATION
Otevřená věda
Otevíráme přímou cestu ze škol k vědě
e-Bug
Establish
stimey
quantum spinoff
calibrate
Learning Resources for schools
OPEN SCIENCE RESOURCES
DynaLearn
creative little SCIENTISTS
Xplore Health
VIDA BIOLOGY
LINKS
eTwinning MST
edu SCIENCE
pri-sci-net
inquire investigate evaluate connect
eItems
KEPLER ISS
SERA
Seismology and Earthquake Engineering Research Infrastructure Alliance for Europe
iMuSciCA
EU-HOU
SCICOM
SCHOOLS TUNE INTO MARS
eris
traces
Inspire
SEEP
NanoEIS
Hello
ASTROEDU
Make the Link
STENCIL
HELENA
Higher Education Leading to ENgineering And scientific careers
BioCannDo
Bioeconomy Awareness and Discourse Project
EU HORIZON 2020 Project
newton
Networked labs for training in sciences and technologies
melt
LEARNING RESOURCES FOR SCHOOLS
ASPECT
the discover COSMOS
Climate guide.fi
CarboSchools
CoReflect
Digital support for Inquiry, Collaboration, and Reflection on Socio-Scientific Debates
STEM-COOKING
GREEN SCHOOLS
Erasmus+

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WEBINARS

- 28/04 - 13:00 - 14:00
  Impact EdTech Q&A Webinar: "How to get up to €195k equity-free funding"
- 28/04 - 17:00 - 18:00
  STEM Alliance / Scientix / Amgen: "Attractiveness of STEM Subjects"
- 05/05 - 10:00 - 11:00
  SpaceEU / Scientix: "Converting workshops to online training"
- 12/05 - 17:00 - 18:00
  STEM Alliance / Scientix
- 21/05 - 13:00 - 14:00
  Impact EdTech Q&A: "IMPACT EdTech 1st Open Call: Applicants' questions"
- 26/05 - 17:00 - 18:00
  STEM Alliance / Scientix
- 15/06 - 13:00 - 14:00
  Impact EdTech Q&A : "IMPACT EdTech 1st Open Call deadline"

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http://www.scientix.eu/events/campaigns/stem-online-days-2020

STE(A)M IT

THE FIRST EUROPEAN INTEGRATED STEM FRAMEWORK

STEAM IT

AN INTERDISCIPLINARY STEM APPROACH

#STEAMIT_project

The work presented in this document has received funding from the European Union's ERASMUS+ programme project STE(A)M IT (Grant agreement 612845-EPP-1-2019-1- BE-EPPKA3-PI-FORWARD), coordinated by European Schoolnet (EUN). The content of the docum
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THIS FIRST EUROPEAN INTEGRATED STEM FRAMEWORK OF REFERENCE

A Master Learning Scenario guiding teachers how to teach in an integrated way.

7 **Example Learning Scenarios** for Secondary education (12 – 16 years old) and 4 for Primary education (6 to 11 years old) with real case scenarios, based on the Master Learning Scenario.

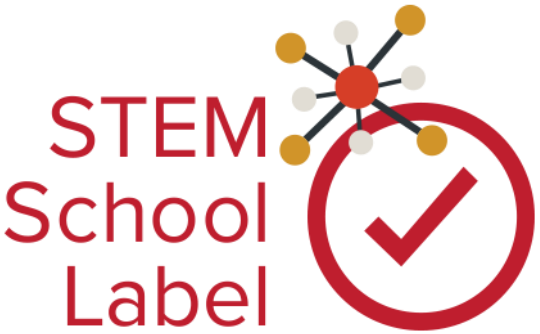
A **Capacity Building Programme** for Secondary and Primary School teachers **on teaching in an integrated way (October 2020)**

A network of teachers to exchange on integrated STE(A)M teaching.

A report on the development and use of this teaching methodology in real case scenarios, including tips and guidelines for integration at Ministries of Education level as well as by schools.

STEAM IT
AN INTERDISCIPLINARY STEM APPROACH

THE STEM SCHOOL LABEL



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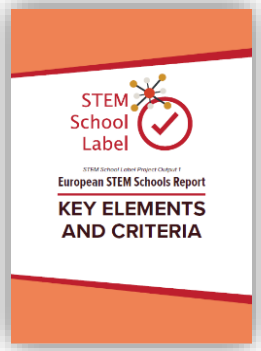
www.stemschoollabel.eu

STEM SCHOOL LABEL



Registration in STEM School Label

Read the examples of Case Studies and checklists

Create School Practice Evidence

Participate in the forum

Generate your Assessment Form

Fill in your Assessment Form

Discuss with other school staff

Answer monthly polls

Discuss with other school staff

Document Case Studies

Submit School Practice Evidence

Submit Case Studies

Get One Label

The Label depends on the assessment form score, School Practice Evidence submission, and active contribution to the STEM School Label activities

Assessment form
Submission

The Label
Expires

STEM School Label COMPETENT

STEM School Label PROFICIENT

STEM School Label EXPERT

No label

3 months

12 months

18 months

Re-submission Period

STEM School Label

http://scientix.eu

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