Empowering EFL Students with STEAM

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About Me

2005- EFL Teacher
2009 -eTwinning
2016- Erasmus
2018- Scientix
2018- TUBITAK 4006 Science Fair (National Project)
2018- STEM Discovery Campaign Winner
2018- CCAL STEM Club
2019- Buyukcekmece Coding Festival- Workshops
2019- STEM Projects
2020- #stayathome (webinars on STEM)
2021- Scientix Ambassador

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Which one do you use most in your English lessons?

- Project-based Learning
- Outdoor Lessons
- Collaborative Teaching
- Social-Emotional Learning
- Intercultural Learning
- Integrated Skills Activities
- Teacher-Oriented Lessons

Go to menti.com and vote for your opinion.
If you're teaching today what you were teaching five years ago, either the field is dead or you are.

— Noam Chomsky —
STE(A)M

- Science, Technology, Engineering, Maths
- Art
- Interdisciplinary
- STEM For ENGLISH
Skills for the 21st century, digital literacy and capacity building for sustainable development and world citizenship are lessons that all children, young people and adults must develop for education to make a decided contribution to achieving Agenda 2030 together.

The Role of STEM

BLOOM’S TAXOMONY – COGNITIVE DOMAIN (2001)

Higher-Order Thinking Skills

Creating: Use information to create something new
Evaluating: Examine information and make judgments
Analyzing: Take apart the known and identify relationships
Applying: Use information in a new (but similar) situation
Understanding: Grasp meaning of instructional materials
Remembering: Recall specific facts

Lower-Order Thinking Skills

https://citt.ufl.edu/resources/the-learning-process/designing-the-learning-experience/blooms-taxonomy/

https://www.battelleforkids.org/networks/p21
Where to integrate STE(A)M?

Vocabulary
Sequence Words

Grammar
Simple Present Tense- Life Cycles

https://padlet.com/ozguozturkk/6gu6cnnrsctgow1e

Some Other Examples

Extensive Reading

https://www.readingrockets.org/extras/stem_series

Story-telling

https://www.amazon.com/exec/obidos/ASIN/1845070151/readingrockets-20
Drama- Role Playing games

https://www.egitimpedia.com/stem-egitimi-nedir
The Role of Scientix

LESSON PLAN "A JOURNEY FROM ENGLISH LANGUAGE CLASSROOM TO MARS"

Users' Tags:
- astronomy space exploration

Age range: 11 - 14

Resource type: lesson plan

Creative commons:

Project: STIM

Author: Hatice Opuz

STEM strategy criteria: Contextualization of STEM teaching, Emphasis on STEM topics and competencies, Inquiry Based Science Education (IBSE), Instruction, Interdisciplinary instruction, Problem and project based learning (PBL)

DESCRIPTION

This lesson plan is designed for a Secondary School English Language class. This lesson is designed to teach some concepts and words related with Mars, planets, space, and science.

http://www.scientix.eu/resources/details?resourceId=28244

Retrieved from: http://www.scientix.eu/
A sample lesson plan for Young Learners

https://drive.google.com/file/d/1QRIzpeookAUeCst6qp9y6bKsrh5OxW/-view?usp=sharing
Only an Activity

A game

1. How many ladybirds can you see?
2. Are the ants red or black?
3. Which insect is shown on a flower?
4. Is the butterfly resting on a leaf?
5. What colour is the flower?
6. Can you see more ladybirds or more ants?

Retrieved from https://www.brainbox.co.uk/
eTwinning Projects

SciEng- By Selda Sezer Topal, TR- 2021
https://twinspace.etwinning.net/121873/home
SCIENTIX Projects

http://www.scientix.eu/projects
http://www.scientix.eu/web/guest/projects/project-detail?articleId=978251
SDG in EFL

Goal 13
- Climate Change
- Global WarNing- sample lesson plan
  - https://drive.google.com/file/d/1se6nkvBvlA1FsijYzzAdxzXJ3UleMSfu/view?usp=sharing

Some Online Resources
- https://www.globalgoals.org/resources
- https://www.un.org/sustainabledevelopment/student-resources/

Retrieved from: https://www.globalgoals.org/resources
Opportunities

Not sure? / Have an idea but how?…

http://www.scientix.eu/live

http://www.scientix.eu/events
Thank you!

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Thank you!

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