

Full STEAM ahead for better education

Lesson plan

Teacher : Sophia (B class)



Loggerhead sea turtle Caretta Caretta

Title/ Τίτλος: Carie's Adventure

Aim/Στόχοι	Solving mathematical and environmental problems through experiential learning games and role-play games
Tools I need/Εργαλεία	Table tennis balls, twigs, gunnysacks, paper bags, play dough and recyclable materials
Preparations/Προετοιμασία	Preparing the materials to be used in the lessons and forming groups of 4-5 to work together.
What to do/ Δραστηριότητες	Pupils learn that playing together in teams and retrieving their pre-existing knowledge and skills they can solve real-life problems.
What I get / results/ Αναμενόμενα Αποτελέσματα	As a teacher I want to motivate my pupils into seeing the usefulness of mathematics in everyday life. I also want my pupils to realize how valuable mathematics is in real-life problem solving. During those lessons, pupils will be in contact with the natural environment, too.

The STEAM approach/ Προσέγγιση STEAM:

S	Search/Ερευνώ	The life of the loggerhead sea turtle "Caretta Caretta" and the dangers that threaten its life.
T	Think/Σκέπτομαι	Brainstorming ideas on the how to protect and save the turtle (named Carie in our story). Group problem solving.

E	Experience/Δοκιμάζω-Βιώνω-Εφαρμόζω	Practicing techniques in subtraction, addition, multiplication and division up to 100. Association with the heroine Carie in storyline. All aspects of the lesson are taught through experiential learning. Pupils are given information on the natural environment and the life of the sea turtle. There is use of everyday materials as well as natural materials for problem-solving and for making calculations.
A	Active learning/ Ενεργητική Μάθηση	Experiential learning, team activities, engaging pupils in a real-life problem, group decision making
M	Motivation/Κινητοποίηση	Using games as the means to entertain and engage pupils in obtaining knowledge effortlessly and in a positive way (pleasant team work experience). Besides that, games will be used as a tool in order to achieve a common goal (which is the liberation -and nurture- of Carie from the crazy scientist X-DNA)

Resources / Links: Πηγές	The Greek Language Book of A (1 st) grade (Reference to the life of Caretta-Caretta)
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