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Title of the STEPAM Unit: STEP by STEP

AUTHORS (NAMES /SCHOOL / COUNTRY): EXPERIENCE WORKSHOP, JAGODINA

RELATED SUBJECTS	AGE GROUP OF THE STUDENTS	TOTAL ACTIVITY TIME	LEARNING OBJECTIVES DURING THE LESSON SUBJECT-SPECIFIC COMPETENCIES	LEARNING OBJECTIVES AFTER THE LESSON
Science, Mathematics, Physical Education, Language, Arts	1-4 grade (6 to 11 years old)	90 minutes	Getting to know the concept of movement and static position. Developing skills of visual representation of data Developing skills for the purposeful use of a mobile application Developing aerobic and anaerobic capacity and endurance	Students adopt healthy lifestyle habits and regular and moderate physical activity, nutrition and hygiene. Students read, use and create tables and graphs Purposeful use of mobile application The students improved their general condition and fitness.

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OVERVIEW: TOPIC & PURPOSE



At the beginning of the lesson, students watch a short video in which different forms and types of movement are presented. After that, through conversation, they define the concepts of movement and rest, citing new examples of movement and rest from their environment.

After that, a short trip is organized where the students will have the opportunity to observe the movement of plants, animals or clouds. They can use different art techniques to represent their impressions of how movement manifests itself in nature.

In the main part of the lesson, students play the game Polar Bear and Line Mark

In the final part of the lesson, students use computers and PowerPoint to draw different paths and ways of moving (it is possible to connect with works of art inspired by movement)

ACTIVITY PREREQUISITES -

STEAM ELEMENTS

ELEMENT 1: context presentation	**What are the factors that affect movement and static position?** **Using different forms of visual representation of movement.**
ELEMENT 2: creative design	**Creating physical exercise plans.** **Creating different forms of paths on natural surfaces (snow, sand, grass, leaves)**

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	Creating drawings of different paths in PowerPoint.
ELEMENT 3: emotional and social learning	Learning cooperation and communication skills through working in pairs and groups. Experiencing focus and concentration during the building process. Experiencing focus and concentration during the exercises.

STEAM SUBJECT ELEMENTS

STEAM SUBJECTS	SCIENCE	TECHNOLOGY	ENGINEERING	Physical Education	ARTS	MATHEMATICS
SHORT INTRODUCTION TO RELATED SUBJECT ELEMENTS	Students learn about movement-change of body position and rest. Students learn about the ways of starting and stopping the body, the types and ways of movement of objects and living beings.	Using a computer and a PowerPoint presentation to draw the paths along which objects move.	Students on different surfaces (depending on the season - sand, snow, grass, leaves...) create - make paths of different shapes (straight, curvilinear, circular)	Polar bear and Line tag	Students use different art techniques to present their impressions of how movement manifests itself in nature.	Lines - curved, straight, closed lines, open lines

SYLLABUS

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LESSONS	SUBJECTS	TOPIC OF THE UNIT	LEARNING OBJECTIVES DURING THE LESSON: SUBJECT SPECIFIC COMPETENCIES	LEARNING OBJECTIVES AFTER THE LESSON: STEAM COMPETENCIES
1	Science,	Movement and static position	Students learn about movement and static position (ways of moving and stopping objects), types and ways of movement of objects and living beings, body path.	Students define movement as a change in body position, differentiate between movement and static position, and recognize and give examples of different ways of starting and moving objects.
2	Physical education, Technology Mathematics,	OPIS IGRE POLARNI MEDVED i LINE TAG, Statue.		
3	Engineering, & Arts. Physical education,	Creating and using tables and graphs to collect and represent data. Designing and creating instructional comics.	.	

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INSTRUCTIONAL PLAN BY LESSON (COPY AS MANY TIMES AS NEEDED)

LESSON Grade 3-4 Science, Engineering, Physical Education, Art (Language) and Mathematics

TIME PLAN	TEACHING & LEARNING ACTIVITIES	MATERIALS	LEARNING OBJECTIVES
INTRODUCTION **(5 – 10 minutes)**	Acquainting students with the concept of motion and static position through film analysis and problem-solving (What moves and what stands still?) Giving examples of the movement of objects and beings from the environment. Defining movement - changing the position of one body relative to another body.	Video about movement around us https://www.youtube.com/watch?v=nIvePkFzaMw PPT slides – 1 to 4.	Students are introduced to the factors that influence moving and static positions.

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LEARNING ACTIVITIES (60-70 minutes)	Organize a field trip where students will have the opportunity to observe the movement of plants, animals or even clouds. They can use different art techniques to present their impressions of how movement manifests itself in nature. ACA - Polarni medved I Line Tag	papers, felt-tip pens, water colors, tempera colors...	Using different lines to represent different types of movement and path.
WRAP-UP & EVALUATION (15-20 minutes)	Students use a computers and a PowerPoint presentation to draw the paths along which objects move.	Computers and a PowerPoint PPT slides – 5 to 8.	

EVALUATION PLAN BY LESSON

LESSON	EVALUATION CRITERIA	EVALUATION METHOD
1, 2	**whether students can make some of the shadow models using their hands.**	Demonstration
	Can students make shadows of different shapes and sizes using objects from the environment and varying the distance and position of the light source	Observation, comparing products
	Did the student presented creativity in creating/ crafting objects (used given/suggested art technics)	Observation and evaluation of creativity (technics) art craft.
	Did the students cooperate with each other in the groups	Observation, self-evaluation of groups / students.

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	Is the students able to implement what they learned and present it during the Play in Shadow theater?	Observation, peer-review of presentation materials
	Homework done and uploaded in padlet	Observation & peer-review

HOMEWORK

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NOTES –

ACTIVITY SHEETS TO BE LINKED -

EVALUATION MATERIALS TO BE LINKED -

REFERENCES / SUPPORTING MATERIALS TO BE LINKED

PDF / PPT slides:

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