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# **Giant coordinate system**

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RELATED SUBJECTS	GRADE RECOMMENDATIONS	TOTAL ACTIVITY TIME	LEARNING OBJECTIVES DURING THE LESSON SUBJECT-SPECIFIC COMPETENCIES	LEARNING OBJECTIVES AFTER THE LESSON
Mathematics, Arts, Social studies (← teamwork)	year 5	30-40 minutes	using coordinate systems, plotting points, organising teamwork	thanks to the activity, maybe a longer-lasting knowledge of coordinate systems, team skills improved

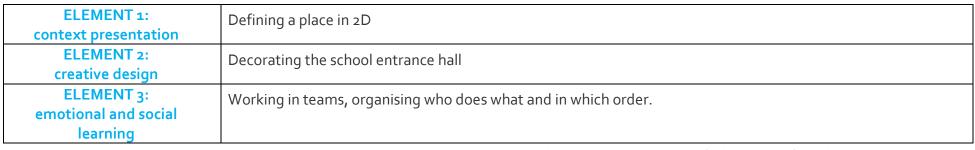
#### **OVERVIEW: TOPIC & PURPOSE**

Practicing plotting points in a coordinate system, creating mathematical art, team building.

#### **ACTIVITY PREREQUISITES**

Coordinate system

## **STEAM ELEMENTS**





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#### **STEAM SUBJECT ELEMENTS**

STEAM SUBJECTS	SCIENCE	TECHNOLOGY	ENGINEERING	ARTS	MATHEMATICS	2
SHORT INTRODUCTION TO RELATED SUBJECT ELEMENTS				The created artefact decorates the entrance hall for a few days.	Coordinate system	

#### **SYLLABUS**

LESSONS	SUBJECTS	TOPIC OF THE UNIT	LEARNING OBJECTIVES DURING THE LESSON: SUBJECT SPECIFIC COMPETENCIES	LEARNING OBJECTIVES AFTER THE LESSON: STEAM COMPETENCIES
1	Mathematics	coordinate system	plotting points	orientation in 2D





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

#### LESSON ....

TIME PLAN	TEACHING & LEARNING ACTIVITIES	MATERIALS	LEARNING OBJECTIVES
INTRODUCTION (10 minutes)	revising the axes, coordinates, explaining the task, forming groups		
LEARNING ACTIVITIES (35 minutes)	the first two groups prepare the axes, then each group gets the coordinates of 3-4 points to find and join by sticking paper tape onto the floor	paved floor, paper tape, a task sheet with the points	working in teams, organizing the teamwork, plotting the points
WRAP-UP & EVALUATION (5 minutes)	discussing how they managed in the group, photo shooting, writing a short text for the school homepage	camera, sg to write on/with	evaluating teamwork, writing a short entry

#### **EVALUATION PLAN BY LESSON**

LESSON	EVALUATION CRITERIA	EVALUATION METHOD
1	E.g. Does the student understand / know ?	E.g. Making concept map
	E.g. Did the student make ?	E.g. Observation, comparing products
	E.g. Is the student able to present ?	E.g. Observation, peer-review of
		presentation materials
	E.g. Is the student able to implement ?	E.g. Creating a project for recontextualizing
		and adapting the idea





## STEAM Connect Material Collection

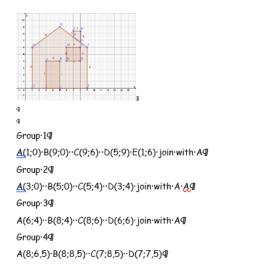
E.g. Did the students cooperate ...?

E.g. Observation, self-evaluation of groups / students.

## NOTES

Below, you can see an example. You can be creative and make another form. A fish, a rabbit,...

## **ACTIVITY SHEETS TO BE LINKED**



#### **EVALUATION MATERIALS TO BE LINKED**

#### Optional

## **REFERENCES / SUPPORTING MATERIALS TO BE LINKED**

Optional - Additional information for teachers to refer to.



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