

Class: Erasmus +

Lesson length: 45 min

Room: 05

Subject: Shifting the graph of a function along the axis

Unit: Functions

Objectives:

- 1. Coordinate geometry cartesian plane
- 2. Using an interactive board to plot graphs of functions
- 3. Finding the rule for the pattern
- 4. Accurate graph plotting
- 5. Practical application of the acquired knowledge
- 6. Calculating data points necessary to plot a graph

Assessment of outcomes:

- Plotting the graphs of a function
- Shifting the graph of a function along the x-axis.
- Shifting the graph of a function along the y-axis.
- Shifting the graph of a function along a coordinate system

Methods:

ICT apps: GeoGebra & Flow!Works Pro for Interactive Board

Step	Activity	Stages	ICT app	Equipment
1	Welcome to the project par- ticipants	_	-	-
2	Introduction to the subject of the lesson – mathematical puzzles	Warm-up	Kahoot	-
3	Students demonstrate graphs of the following functions for the participants $y = x^2$	Plotting graphs of a func- tion	Flow!Works Pro	Interactive board projector
4	Students explain the rules of shifting the graph of a func- tion	Participants are intro- duced to the general rules of shifting the graph of a function along a coordi- nate system	PowerPoint	Interactive board projector
5	Presentation by students	Presentation of GeoGe- bra application	GeoGebra	Interactive board projector
6	Practical tasks	Project participants use the acquired skills to find patterns of a function and graph that satisfies given condition.	GeoGebra	Interactive board projector