

Szkoła Podstawowa Nr 2

Gliwice, Poland

Arts-based Learning Module

Subject:

Music

Topic:

Fractions in musical arts

Age of students:

11-13

Required prior knowledge:

No.

General objective:

Turning students' attention to the link between music and mathematics, stimulating their creative imagination.

Specific objectives:

- Students understand what rhythmic values of notes and pauses are,
- can clap out the duration of notes,
- know what a bar in music is,
- know different kinds of bar lines,
- know what a meter is and how to note it,
- can assign common fractions to notes and the other way round, note 4/4 bars,
- group the number of notes in bars.

Opportunities:

- Students can design a melody,
- can present the designed melody via steps on a string,
- can present rhythmic values and notes' duration in a graphic form.

Arts involved:

Music

Resources:

1. An interactive whiteboard,

	Whole	
	Half	
	Quarter	
	Eighth	
	Sixteenth	



Learning with the Arts

Erasmus+ School Cooperation Project 2017-2019

2. a string, color stripes, notebook,
3. school corridor.

Time frame:

3 x 45 min

Methods of work:

Practical activity, a project, group and individual work

Steps:

1. Thematic classes about fractions and rhythmic values:
 - a. revising the knowledge of rhythmic values of note and pauses,
 - b. revising the knowledge of common fractions.
2. Fractions in arts:
 - a. discussing the use of common fractions in rhythmic notation,
 - b. discussion about how to write notes in 4/4 metre, put them down on paper, clap them out and hum – examples shown in a PowerPoint presentation on the interactive whiteboard.
3. Creative tasks:
 - a. Designing one's own melody,
 - b. presenting the melody in a school corridor with a string instead of staff and steps with different duration instead of notes,
 - c. noting melody on big sheets of paper, marking under them the duration of notes.
4. Presentation of the creative tasks: the school corridor, a presentation in front of classmates.

Carrying out the module in SP 2 in Gliwice:

- Participants were students of Year 5 (22 students)
- Classes with Year 5: 20.04.18, 27.04.18, 11.05.18