CLIL Lesson: Math

Developer: Claudia-Nicoleta Ispas
Timing: 60 min
Age of students: 11-14
Context and Prior Knowledge: basic fractions and basic musical notes

Important: the computer you use must have Quicktime player installed in order to view the presentation properly!

Lesson Steps

1. 3'	Introductions: prepare and start the presentation Math is music.pptx
2. 2'	Introducing the subject of the lesson to the students (use slides 1,2)
3. 1'	Run slide 3 – Rhythm lesson song (from https://www.youtube.com/watch?v=KUtEg8Qxuxk)
4. 3'	Use the printed notes to make sure the students, know the symbols for whole, half, quarter, eighth and sixteenth notes, and remember them how we write them at mathematics
5. 1'	Use slide 4 to show the students how many beats represent each note
5. 15'	Use the numbers 1 to 14 (if you have a different number of students, print as many cards as you need) to form 2 teams even numbers one team, odd numbers one team. One team will receive the fractions to create on a flipchart the fraction tree, and the other one the musical notes tree, and then place both charts insight and compare them.
6. 10'	Use slide 5 to show the musical math sentences and give them to solve on the corresponding worksheet. Students should work in pairs (form the pairs using consecutive numbers,1 with 2, 3 with 4 and so on). Use slide 6 to cross-check the answers (teams swaps the worksheets)
7. 2'	Run slide 7 for 1 min and 40 sec (movie Music + Math: Symmetry from https://youtu.be/V5tUM5aLHPA)
8. 15'	Run slide 8 and give the students the fractals worksheet to complete. SS work in pairs (like in the previous activity). Display the results. Compare and discuss the results.
9. 6'	Run slide 11 to see the rest of the movie Music + Math: Symmetry
10. 2'	Conclusions, students can ask questions.