

BotSTEM – Erasms+ KA2 Project

2017-1-ES01-KA201-038204

Good practice template

1. Title of the activity / practice	Robot DOC on the line of numbers
2. Origin of the activity	Clementoni SPA
3. Age of the students	6-7 years old
4. Target group (type of the learners, size of the group)	
5. School subjects + topics concerned	Math calculation
6. Educational goals of the practice	Verify on the line of numbers of simple mathematical operations: addition, subtraction and multiplication.
7. Duration	Depends on the number of children in the class.
8. Place	Classroom. Move the table and use the floor or group the desks in order to have the space to move the robot.



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9. Short description of the activity

Preparation:

Draw a table with the line of the numbers with squares of 15 cm:
- from 0 to the 10 for younger pupils, or
- from 0 to the higher number reached with the multiplication tables

Ask students (individually or in groups) to mentally perform simple addition, subtraction and multiplication tasks (simple operations can be written on the blackboard, the results calculated in their pupils' mind and then written on the chalkboard).

Program the robot to check the answers:

Addition: program robots to perform the first X steps, produce the sound signal, perform the remaining Y steps and compare the number on the board with the given answer.

Subtraction: program robots to perform the first X steps, produce the sound signal, go back Y steps and compare the number on the scoreboard with the given answer.

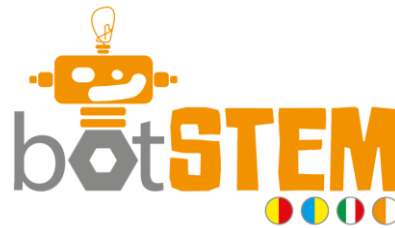
Multiplication: program robots to repeat X times a sequence of Y steps by emitting the sound signal at the end of each sequence and comparing the number on the board with the given answer



10. Evaluation

The children are more involved in the activity by practising the numbers in a hands on way, moving directly the robot and seeing the results appear in front of them.

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11. Materials / Resources / technical requirements	Clementoni DOC robot Paper, colours, ruler to build the table of numbers
12. Tips for educators / theoretical background (if applicable) or curriculum context	Play this activity in groups will help the children to improve social skill and patience.