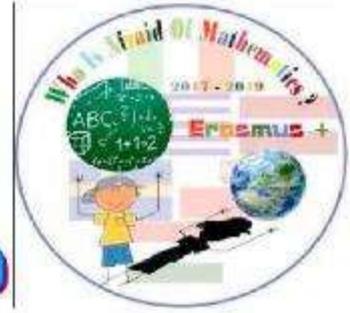


LESSON PLAN

Who is Afraid of Mathematics?



Category: **MATHS in HEALTHY LIFESTYLE**

Title of the activity:

“Sports for everybody”

Year Group: **Grade 2 (7/8years old) - Grade 4 (9/10 years old)**

Teachers: **Daniela Campa - Paola Inchioda**

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Learning Objectives:

- To know how to use measuring tools as scales, graduated shafts, metre, metric wheel, chronometer.
- To be able to measure short distances in prearranged time spans.
- To use different types of measuring units.
- To learn how to elaborate statistical data and create simple charts and graphs.
- To improve skills of orienteering in familiar context.
- To improve the use of vocabulary about days, months and time in English in a context of a problem-solving task.
- To support children to be aware of the concept of “fitness” as a numerical information linked to the relation between their weight and height.
- To improve physical skills in terms of speed and endurance.

Success Criteria:

- Planning and carrying out a cross-curricular class-project involving Maths and P.E. in indoor and outdoor contexts.
- To stimulate socialization, inclusion and peer competition in contexts of school physical activities.
- To promote attitudes for “positive competition” and “fair play”.

Resources:

weight scales, graduated shafts, measuring wheel for distances, chronometer, GPS, gym equipment (balls, little cones, markers, single clubs, sticks, etc), worksheets, posters

Differentiation

All the planned tasks have been simplified and sometimes get shorter to be taken on by the autistic boy who is integrated in grade 4 group.

Lesson Description:

- **Grade 2**

- a- In classroom the teacher measures each child's height and weight using proper tools
- b- Data are recorded in charts.
- c- Creation of a personal file for each child.
- d- In the gym execution of four different physical activity by all pupils of the class:
 - 1- Strength test of arms: starting by sitting down position, throwing a mini-basket ball using arms;
 - 2- Strength test of legs: long jump starting from a fixed position;
 - 3- Speed test: "Navetta" 2x10m;
 - 4- Moving coordination test: children perform themselves in a route of dexterity, general coordination and rapidity.
- f- While children performed in the gym, the results of the tests are measured with appropriate tools. In this way pupils can practice and get more familiar with graduated shaft, meters, chronometers, measuring wheels.
- g- All data are recorded on worksheets with grids specifically prepared by teachers.
- h- Then the results of the performances are written in personal files, one for each child, and in charts created by pupils working in groups.
- j- Mathematical information about each pupil's body measurements are compared with the results of the performances in the gym and discussed in class.

- **Grade 4**

Step 1: **Ordinary Mile** (outdoor activity)

(Once a day across the whole school year)

- 1 – After a short warming-up, children march in line two by two along a route chosen among some available closed to the school. The distance must be one mile, marching fast and running, alternately.
- 2 – Every day children record the time-length used to perform the distance, in a shared chart.

Step 2: **How many miles in a week?** **How many hours of physical activity?**

(Once a week)

Every week children record the total number of miles and transform them in metres and kilometres.

They do the same with the calculation of time, but recorded in a different chart.

Step 3: How many miles in a month?

How many hours of physical activity in a month?

(Once a month)

Calculation of total miles and length of time in a month.

All data are recorded in chart.

Introduction:

- **Grade 2**

MATHS: - to get more familiar with the use of some tools for measurements;

- to know and operate with numbers within 100 or more;
- to know mathematical concepts of minor – bigger - equal;
- to be familiar with the use of charts to represent data and how can create them:

P.E.: - to control basic body motor frame in different context;

- to manage effectively physical and sportive performances;
- to be able to follow rules in sport games and competitions.

- **Grade 4**

- To learn names of days and months in English
- To get familiar with the geographical characteristics of the route that children will walk
- Practice measuring Units of Length (International Units/Miles)
- Practice Units of Measuring of time

Main Lesson:

- **Grade 2**

The main part of the project takes part in the gymnasium of the school, where kids make all the exercises and their measurements. Afterward, in classroom, kids collect data, fill in charts and worksheets, then observe, compare, discuss and share ideas and opinions about the links between children's heights, their mass and the results of their performances.

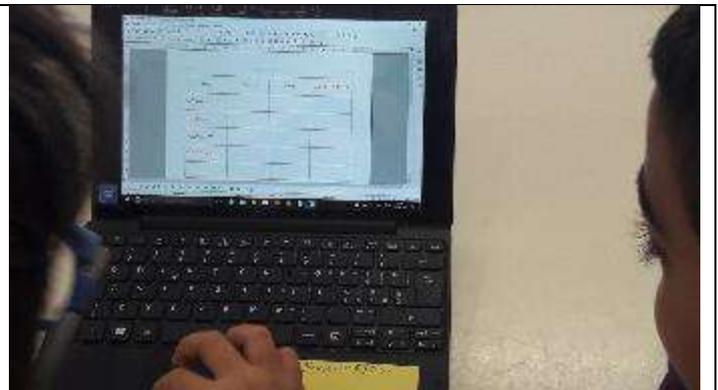
- **Grade 4**

The activities are part of the project named "One Mile a day" whose main objective is to promote a healthy style of life in school. The project is part of this class school year planning. Maths activities and the use of English language have been integrated into the project.

Plenary:

Both grades have had positive impact and outcomes overall because of ludic and sports implications. Children have personally participated with the main aim to improve themselves. They have achieved more awareness of the fact that their performances results are strictly linked to the height and mass parameters. They have realized that using maths techniques, language and schemes of representation has given the possibility to show what they have learnt from this kind of experience.

PHOTOS



• PROGETTO ERASMUS: MATH
AND A HEALTHY LIFESTYLE.

NAME ALESSANDRO
• WEIGHT 24 Kg
HEIGHT 120 CM
SALTO da forma: 140 CM
LANCIO PALLA: 338 M
• CORSA NAVETTA: 17.43 sec
PERCORSO: 18.78 peraltro
STRUMENTI UTILIZZATI:
BLANCHASTORPUSA METRO CRONOMETRO
MATERASSINO PALLA CON ASTE LAMERE.

A handwritten note on lined paper. The text is written in various colors (green, blue, red, black). It lists personal information and activity results for a child named Alessandro. The activities mentioned are "SALTO da forma" (140 CM), "LANCIO PALLA" (338 M), and "CORSA NAVETTA" (17.43 sec). The "PERCORSO" is listed as 18.78 peraltro. The "STRUMENTI UTILIZZATI" section lists "BLANCHASTORPUSA METRO CRONOMETRO" and "MATERASSINO PALLA CON ASTE LAMERE".



Membeli di Plozja
 Plozja di sotto con lungo e lungo di
 melle

	SAPO	LACD
1 ASE	150cm	140cm
1 VOPK	170cm	160cm
1 VILJRW	180cm	170cm
1 OPEIRO 1	190cm	180cm
2 OYAS	190cm	180cm
1 ALBISTO	190cm	180cm
1 GIORA	190cm	180cm
1 VARE	190cm	180cm
1 MARSERDA	190cm	180cm