



Perché?

Teaching Science
to 3-to7-year-old kids

What is “Perché?”

The project “Perché?” is part of an ampler program whose aim is propelling the teaching of scientific subjects to 0-to-7 aged children: «Giocare con la Scienza», («Playing with Sciences») addressed to those children attending Kindergarten in the Municipality of Foligno and implemented between November 2011 and May 2013 and «Perché? Le Scienze per le bambine e i bambini da 3 a 7 anni», addressed to children attending the last years of Kindergarten and the first two classes of Primary School.

Overview of the project

The project aims to propel children to feel what surrounds them, to develop their spontaneous interest and to help them in becoming self-perceptive, so that they would spontaneously follow their interests and would deepen them.

Therefore, it is essential to pay as much attention as possible to the learning processes which occur from the very first years of life.

Setting up an environment rich in stimulus helps children in learning spontaneously and pushes them to find out new stuff and to develop their own qualities.

First hand experiencing and discovering allow children to build their own knowledge. Therefore it is important to give them the chance to feel – first hand and individually – space and objects through the five senses and above all through games. By taking part to games children are going to be able to would allow children to state, to tell, to explain and combine creatively individual experience in a perspective of social interaction.

Purposes

- Stimulating curiosity
- Fostering creativity
- Developing and improving the critical thinking
- Spreading scientific methods among 3-to-7-year-old people
- Contributing to the reflection and offering new chances of intervention to teachers in teaching scientific subjects

Activities of the project

- Focus groups with partner teachers
- Theoretical and laboratory classes for teachers
- Workshops in schools with children – parents likely to be involved
- Activities related to the Project in Experimental Science Lab and other available facilities
- Set up of places
- Evaluation and results

Teacher training topics

BIOLOGY

World life
The molecule in the dish
The Models

MATHS

Topological concepts
and logical quantifier
Logic
Arithmetic

ENVIRONMENTAL SCIENCES

Ecological Models
Studies on sense and
perception
Ecosystems

LOGO & ROBOTICS

Bee-bot ...
A New Fellow
Knowledge
Movement
Measurement, Game

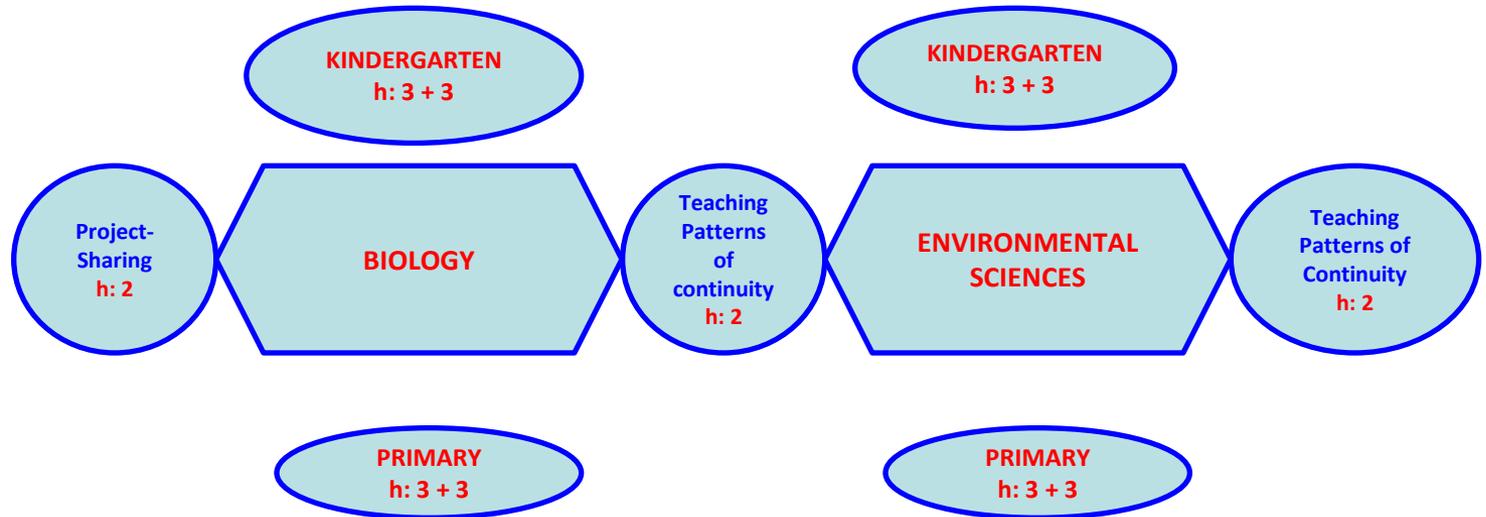
PHYSICS

Water, Air, Energy
Mechanical Games

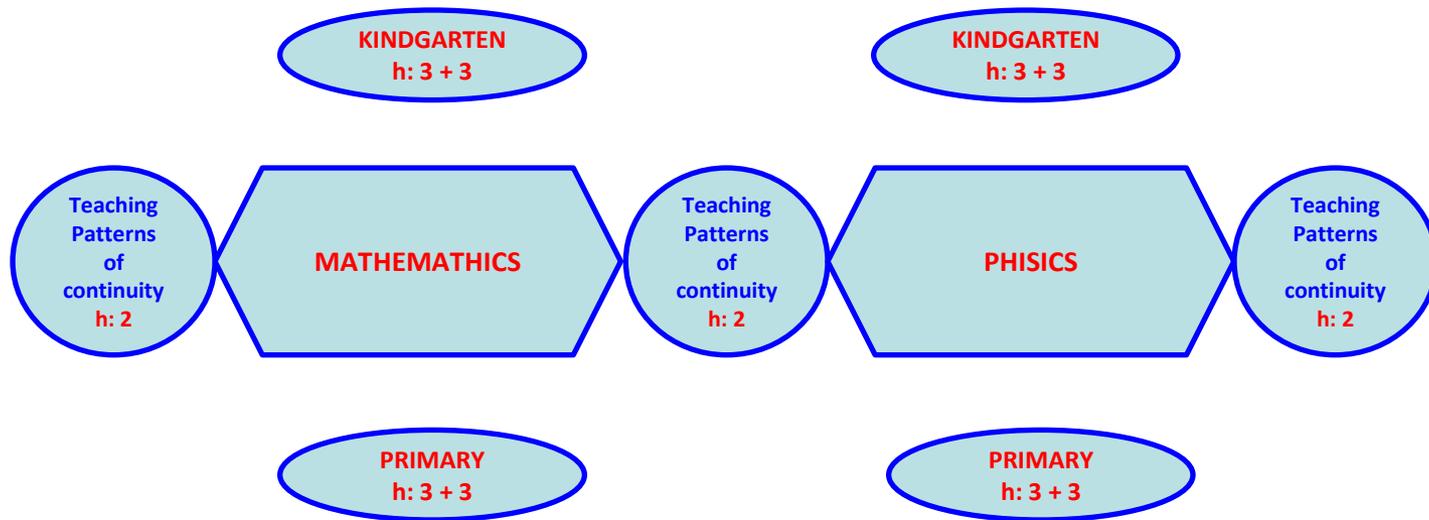
ASTRONOMY

The Solar System
The Deep Sky
The Sky at Planetarium

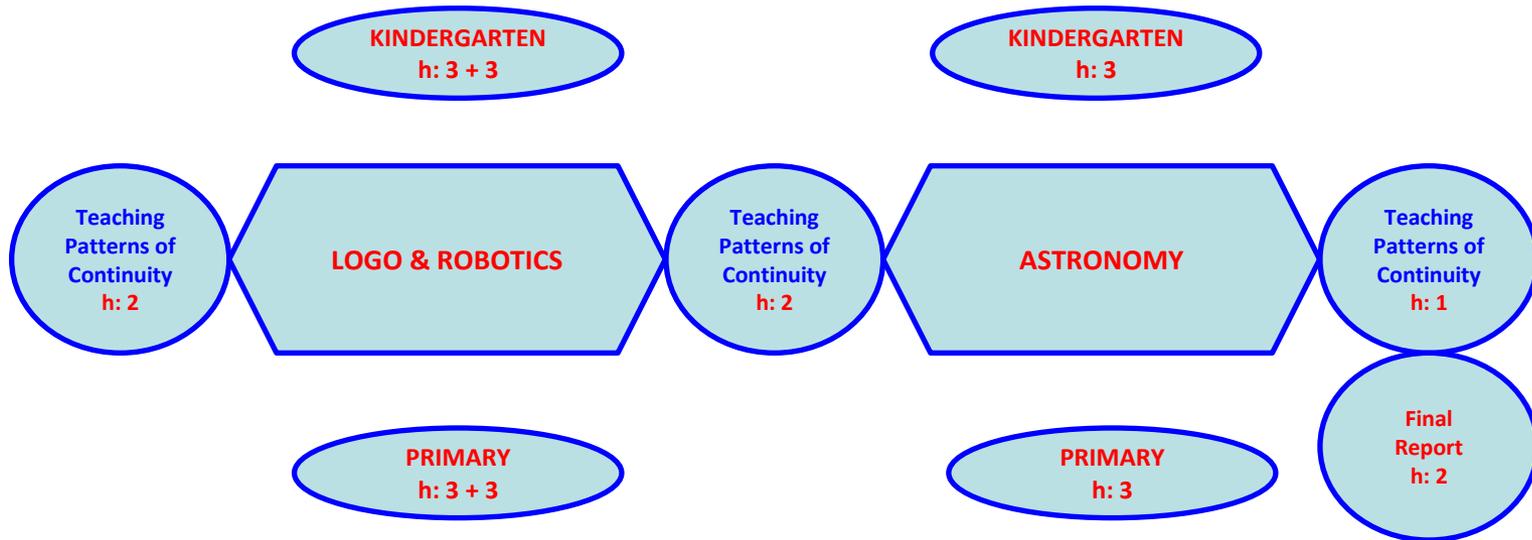
Teacher training topics



Teacher training topics



Teacher training topics



Evaluation

The evaluation of both the processes and the results, is going to concern any participant and is going to take place in different ways:

- Free and/or guided observation,
- Structured interviews,
- Filling tests.

The ways in which the evaluation is going to take place will differ from class to class.

Results

The results of the event are going to be as follows:

- publishing brochures,
- Involving parents
- Organizing halls and events among which activities at the Experimental Science Lab foreseeing the involvement of parents and children,
- Setting up playful educational areas ideal for manual, motoric and sensorial activities.