

## PROFILES IBSE Teaching / Learning Materials

### Teacher Notes



For the learning activities suggested in the module, it is assumed that pre-schoolers know the following:

- Water is very important in human and animal life;
- Water flows and it is used in cooking, washing, etc.;
- There are dirty waters because of the actions of men;
- Water is transparent.

### Abstract theory

By combining and colouring water processes, it's intended child's understanding and awareness of the water pollution phenomenon. As the blending and colouring water changes its properties, so through pollution, water becomes harmful to humans and other creatures. Throwing liquid, dirt and other materials that we, humans no longer use or no longer need, we pollute the water purposely or not, contributing in this way to the destruction of the animals aquatic environment or even the water that we consume daily.

Children will become familiar with new scientific terms and also handling of tools and other instruments. To synthesize information, pre-schoolers will complete at the end of the activity, the scientific statement.

### Experimental Roundup:

**Water Colour:** This is done using various materials and substances, such as Coca Cola, sand, ink, watercolours, food colours, etc. In combination with all these materials, water changes its colour, taste, smell, depending on the introduced substance and material.

The combination involves mixing of two liquids (water and another liquid) which leads to the water changing properties and to the dilution liquid combined with water.

**Water filtration:** involves separating water from various materials with which it has come into contact. Gauze or filter paper will be used. Children will notice that through this process, water is separated from the sand, cornmeal, shredded leaves, and they remain

on the gauze. In this way, children will realize that the water cannot only be polluted, but it can also be cleaned and a good method for this is filtering.

Children will carry these experiences / experiments under strict guidance of the teacher, using tubes, various transparent dishes to notice the changes and the transformation in the water quality and to understand the consequences of water pollution. They will observe and explain why water changes its properties while combining or colouring it.

## References:

1. Curriculum for early childhood education from 3 to 6-7 years in 2008;
2. Knowledge of the environment in kindergarten, Stefania Antonov, publisher DPH;
3. Knowledge of the environment. Happy Kindergarten, publisher Erc Press.