Science and mathematics

Lemonade

DESCRIPTION OF THE LEARNING SITUATION	MATERIAL	DURATION
Preparation		
Activity 1 The teacher presents a one litre container filled with coloured water and a variety of other containers. (S)he animates a discussion as to the capacity of the different containers to contain the coloured water or not. Then (s)he carries out the demonstration.	-See preparation guide	20 minutes
Realisation		
Activity 2 The teacher presents different glasses to the students and asks them to estimate which glass will contain the most water. In teams of two, the students perform an experiment to so determine. A discussion is held to clarify the precautions to take when making notes while manipulating water. As a result, the students develop efficient work habits.	-See preparation guide -Student booklet, p.1-2 -Annex 2	60 minutes
Activity 3 The teacher proceeds with a demonstration to initiate the students to the concept of solubility and observation via the senses. Then the students reproduce similar experiments with other substances. The students note their observations on the different mixtures produced.	-See preparation guide -Student booklet, page 3	45 minutes

Integration		
Activity 4 The teacher proceeds to a demonstration in order that the students may observe that a soluble solid in too great a quantity does not disappear in the water. The properties of the mixture are thus altered.	- See preparation guide -Student booklet, page 4	30 minutes
Mathematics		
Situational problems The students are invited to resolve two situational problems in relation to the previous activities.	-Manipulation material -Situational problems files	