

Subject: Science

Purpose: For the students to develop comprehension of the conception of osmosis and practice their skills to work scientifically by means of experiments

Science class	Students' activity	
1a	The students read about a real event – a competition where the participants are to drink as much water as possible in order to win. A discussion of what will happen if you drink too much water. When you are in hospital you get water with the same salt concentration as have the cells of the body, physiological (isotone) solution with 0,9% salt content. The students ponder on the reason why this is so important	Introduction Discussions
1b	The students carry out experiments on osmosis. They make an experiment where they put salt on the section surfaces of various vegetables	Experiment
1c	The students use <i>Sunflower Learning</i> , a programme for Science lessons, where different scientific phenomena are digitally illustrated	ICT
1d	The students are to describe their observations based on the things that they have learnt when using <i>Sunflower learning</i>	
2	The students are to plan a new experiment on osmosis and thereby use <i>Sunflower learning</i> to predict what will happen. Now they will use jelly babies in a water solution with pure water and in a saturated water solution	ICT Experiment
3a	The students are to follow up the experiment and find out if their hypotheses match the results	
3b	The students use <i>Sunflower learning</i> to explain what they have observed in the experiment	ICT
4	The students do a written test to put their newly gained knowledge into practice in a new situation	Evaluation