Student experiment (1st - 4th grade)	Liquid rise and fall	• Time: max. 15 min.
Safety:		
Instruments:	 a large glass a piece of Styrofoam a metal nut (no bolt necessary) a spoon 	
Chemicals:	 blue-colored water corn syrup salad oil a grape a piece of marble 	
Experiment:	 Fill the glass one-quarter full with corn syrup. This works best by turning a spoon upside-down over the glass to spread the syrup more evenly. Slowly pour the same amount of salad oil into the glass, then the same amount of blue water. The three liquids separate and form layers. Now place the different objects slowly and carefully into the glass and let them sink. What do you notice? 	
Advice for the teacher:	Water is denser than salad oil, but less dense than corn syrup. The different objects reach different depths in the glass. They sink until they reach a layer of similar density, then stop there, not entering the next-densest layer. The students should learn that two objects of the same size but different masses have different densities. Less mass = less density for equal volumes. This is true for all substances. When an object's density is less than the surrounding liquid, it floats.	

