Student experime (5th - 10th grade)	Mini T	raffic Light	Time: max. 10 min.
Safety:			
safety glasses			
Instruments:	 2 flasks (for both solutions) 2 pipettes or syringes 1 100ml graduated cylinder 1 glass with threaded lid 1 spatula 		
Chemicals:	 sodium hydroxide pellets, NaOH (H: 314; P: 280-301+330+331-309-310-305+351+338) indigo carmine glucose, C₆H₁₂O₆ water 		
Preparation:	ation: Two solutions should be prepared. first solution: sodium hydroxide 1,25 g sodium hydroxide pellets (NaOH) in 100 ml water second solution: indicator		
	100mg indigo carmine	e in 100ml water	
Experiment:	 Place 10 ml of the sodium hydroxide solution (see above) in a glass with a threaded lid. Add circa 40-50 drops of the indicator solution to this glass. Then add two spatulas of glucose to the mixture. After a short time the color will change to green. Shake the glass – the solution will turn yellow, then red. This sequence can be repeated many times. 		
Observations:	When the glass is left alone for a short while, a green color is the result Shaking the glass results first in a yellow color change, then in a red one. The process is repeatable again and again.		



1

