**Sodium Polyacrylate**

Today in Science class, Mr. Smith did one demonstration.

Sodium Polyacrylate

In this demonstration, Mr. Smith asked for a trusting student to sit in front of him. He had a glass of water, and he said that he was going to put some Sodium Polyacrylate into it and then pour it on the student’s head. He poured in the Sodium Polyacrylate and then turned the glass upside down over the student’s head. Nothing came out, because the Sodium Polyacrylate had bonded with the water and turned into a hard gel that was stuck to the inside of the cup.

Things I learned:

* NH4NO3 – Ammonium Nitrate
* C3H8 – Propane
* C12H22O11 – Sucrose
* C2H6O – Ethanol; the only edible kind of alcohol.
* Injecting yeast cells with sucrose makes ethanol, and then the yeast cells pee out ethanol.
* The formula for making Sodium Polyacrylate is:
  + [- CH2 CH (COOONa) - ]n
* Sodium Polyacrylate is used in diapers that are worn for long periods of time, so any urine turns instantly into gel.

