

## 1 | **Water beads experiment**

Link - Sugar types - Sucrose is a disaccharide - one glucose and one fructose - cane sugar is a disaccharide -  $C_{12}H_{22}O_{11}$  - Summarize observational data - Beads shrivel in all except water and sugar - Change in water is minimal - Hypothesis - Sugar bonds to each other and does dehydration synthesis? therefore more water - Therefore water goes into the beads? - Polarity of molecules? - Interacting charges pull water out of the bead? - Something else went into the bead? - Things that would be helpful - What is the concentration of the water in the beads? - Super absorbent polymer: sodium polyacrylate - negatively charged sodium - What is the actual concentration of sugar? 75g water meaning 75g total solution? # My Food Data - Just said 46/50 g protein and figured out a diet - Looked up ideal diet for fifteen year old - Protein RDIs were by weight, is it really scalar like that?

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