

JIGGLE JELLY OR SLIME LAB**Data and Analysis:**

Observation of the PVA before the sodium borate is added:

Observation of the PVA after the sodium borate is added:

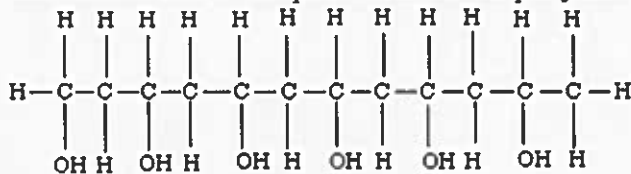
Observation of stretching the cross-linked PVA slowly:

Observation of stretching the cross-linked PVA rapidly:

Observation of the cross-linked PVA left out in the air overnight:

**Questions:**

1. What are the physical properties that change as a result of the addition of sodium borate to the poly (vinyl alcohol).
2. What would be the effect of adding more sodium borate to your cup (your thoughts only)?
3. After making the observations on the dried PVA, how does the water affect the elasticity of the polymer? What is elasticity?
4. Find and circle the repeat unit in the polymer molecule below?



5. What is the formula of the poly (vinyl alcohol) monomer circled above? (Your teacher may want to show you how to alter this slightly after you have drawn the structure.)
6. In the picture below, circle the borax cross-linking agent.

