

5.4 – Yeast, SN pages 56 - 58

Question: What does yeast do with sugar?

Procedures:

	1. Number your test tubes 1, 2, 3, & 4. Arrange them in order in the test tube rack.
	2. Add 10ml water to each test tube.
	3. Add 2 g sugar to tubes 2 & 4. Use the folded paper & remember to tare your scale.
	4. Add 1 g yeast to tubes 3 & 4
	5. Return your scale to the front table.
	6. Mix test tubes 2, 3, & 4 by placing your thumb over the top and shaking it 10 times to mix the contents.
	7. Place a balloon over the top of test tubes 2, 3, & 4.
	8. Take a photo of the test tubes. Add the photo to the table on the next page with the caption "Time = 0 minutes"
	9. Add 300 ml hot tap water to the 600ml beaker
	10. Place the test tubes in the beaker.
	11. Wait 5 minutes to make your first observation. While you are waiting work on steps 15 – 18 below.
	12. After 5 minutes, take the test tubes out of the warm water bath and place them in order in the test tube rack. Take a photo with a white background. Add the photo to the table on the next page with the caption, "Time = 5 min"
	13. Replace the hot water in your beaker. Put the test tubes back in.
	14. After 15 -20 minutes, repeat step 12, but change the caption. This time you also need to measure and record the height of the foam in each test tube. For consistency, one person should do all of the measuring.
	15. On SN p57, make a drawing at 100x of the dry yeast granules. Make sure you calculate size and show your work.
	16. On SN p58, make a drawing at 400x of yeast that has been in sugar water (like test tube #4). Use 1 drop of yeast from the beaker on the front counter + 1 drop of methylene blue. Look for yeast that is reproducing (small circle connected to an even smaller circle).
	17. Rinse and dry your slide and coverslip. Place them on your microscope's stage.
	18. Clean-up <ol style="list-style-type: none">Microscopes off, low power, nose to nose, clean stage w/ clean & dry slide and coverslip on it.All glass ware rinsed and upside down in your tub.Balloons draped over the top of the test tube rack.Tub neatly organized.Wipe down your table with a damp rag (not paper towel).Seated and silent so I can check your tub.

Name: _____ Date: _____ Per: _____

Photo	Description
	Time =
	Time =
	Time =

Feeling lonely? Remember you are never alone – you have friends that travel everywhere with you and want to be with you; eyebrow mites and intestinal bacteria to name a few gazillion of them.