Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**DNA EXTRACTION LAB**

P. \_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**PROCEDURE**:

Fill in the **observations during the experiment to describe what it looks like at each step.**

|  |  |
| --- | --- |
| 1. Collect saliva (no mucus) in the  cup. You will need at least 10 ml. | Observation: |
| 2. Add a very SMALL scoop of salt to your cup (use scoopula) and  SWIRL until all the salt is dissolved. | Observation: |
| 3. Add 2 drops of liquid soap and  SWIRL until well mixed.  4. Let the mixture sit for **5** minutes. | Observation: |
| 5. Pour the mixture into the test tube, up to the first line (apx. ¼ full). | **TEACHER CHECKPOINT!**  **Get teacher stamp BEFORE moving on:**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **teacher signature** |
| 6. The teacher will add a very small  scoop of enzymes (meat tenderizer) to the test tube after signing your check-point.  7. Stir **GENTLY** with **WOODEN**  **STICK**.  Be careful! If you stir too hard,  you’ll break up the DNA, making it  harder to see. | Observation: |
| 8. **TILT** your test tube.  9. **SLOWLY** pour rubbing (isopropyl)  alcohol into your test tube up to  the second line (apx. half full). | Observations: |
| 10. Alcohol is less dense than water, so it floats on top.  Look for clumps of white stringy stuff where the water and alcohol layers meet. | **TEACHER CHECKPOINT!**  **Get your teacher’s stamp BEFORE moving on:**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **teacher signature** |
| 11. DNA is a long, stringy molecule.  The salt that you added in step #1  helps it stick together.  Observe the clumps of tangled DNA molecules! | Observation- describe what your DNA looks like: |
| 12. You can use a wooden stick or paper clip to collect your DNA **AND** place it in an Eppendorf tube and close the lid tightly.    13. You can thread a piece of string  through the Eppendorf tube and  wear your DNA as a necklace. | C:\Users\becky.plankenhorn\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\SE0RMDFW\20140314_075643.jpg |
| 14. Clean up your station:  \*Rinse **test tube with clean water** **from the sink.**  \*Then **dip and rinse in the bleach solution.**  **\*** Then **dip and rinse in the bucket of clean water.**  Make sure your station looks just like it did when you first sat down at this lab. |  |