DNA Virtual Extraction Lab

Directions: Please follow this link <https://learn.genetics.utah.edu/content/labs/extraction/> and hit the big orange play button (it may take a second to load). Complete the DNA Extraction Lab while filling in the questions below.

1. **List three reasons why scientists isolate DNA**
2.
3.
4.
5. **Why is DNA extraction an important part of the laboratory process?**
6. **How many feet of DNA is located in each nucleus of our cells? \*Hint you will have to convert meters to feet**

1. **List the steps you will follow to purify DNA from a cheek swab**

1. **What does the Greek term lysis mean?**

1. **What does the lysis solution you added contain?**

1. **Using your prior knowledge, how does the detergent disrupt the cell membrane?**

1. **What is the name of the protein that DNA is tightly wrapped around?**

1. **DNA is not soluble in isopropyl alcohol. What does this mean?**

1. **How long can you store DNA in a freezer?**

**OPTIONAL: Follow this link** [**https://www.scitech.org.au/experiment/human-dna-extraction/**](https://www.scitech.org.au/experiment/human-dna-extraction/) **and perform the Human DNA extraction at home!!**