



Name: _____ Date: _____ Class: _____

DNA Barcoding 101 Assignment

As you watch the **DNA Barcoding 101** presentation, think about the following questions. Discuss these as a group and be prepared to share your answers with the class.

1. What is DNA barcoding?
2. List some applications of DNA barcoding
3. Why are the traditional methods of classifying species not sufficient?
4. List some of the limitations associated with using snippets of DNA to identify certain species
5. What other limitations might this technique have?
6. What is the function of cytochrome c oxidase 1 (COX-1) and where is it found?
7. How is the COX -1 gene related to species identification?



8. Why is it not practical or efficient to barcode an organism's entire genome: what is used instead?

9. How many species have been identified to date? How many are yet to be identified? How many have been identified using DNA barcoding?

10. What are some of the future goals scientists hope to achieve in using this technique?