Student Web quest: PCR Source: Genetic Science Learning Center. "PCR Virtual Lab." <u>Learn.Genetics</u> 14

July 2009 <a href="http://learn.genetics.utah.edu/content/labs/pcr/">http://learn.genetics.utah.edu/content/labs/pcr/</a>

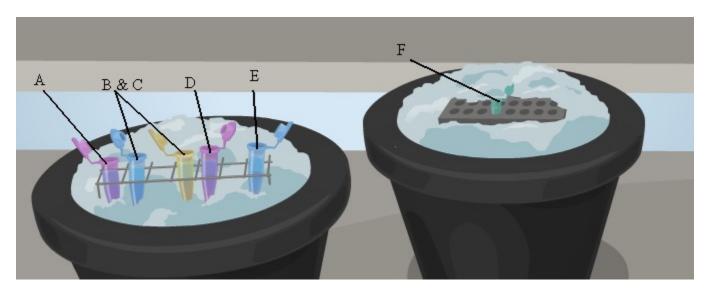
**Objective**: In this virtual lab, you will identify the resources and process of Polymerase Chain Reaction or PCR.

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- 1. How many base pairs are there in the human genome?
- 2. What is PCR? What does it do?
- 3. What are some of the advantages of PCR? Name 1 and explain.
- 4. What is unique about the design of PCR tubes?

## At Lab Bench making the Mix:

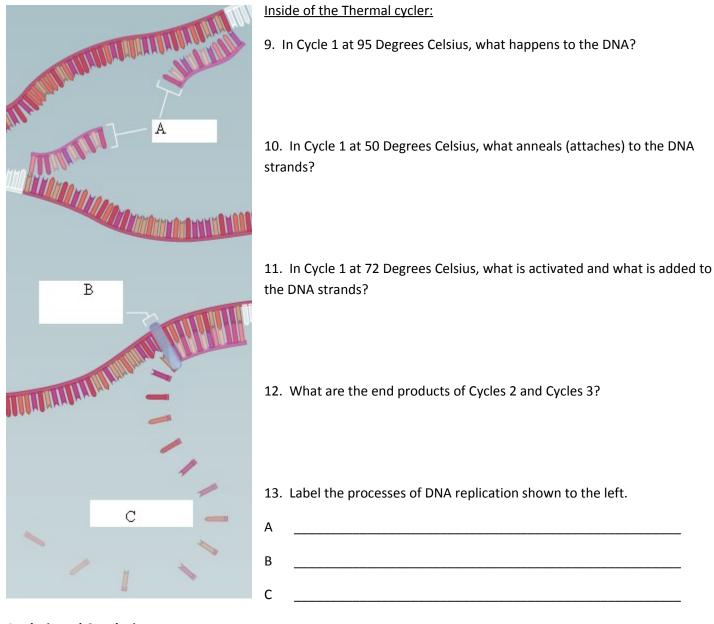
Note: Remember to click and hold the mouse to use the pipette.



5. Label the following on your bench. Your **PCR tube** (F) has already been done for you.

A \_\_\_\_\_ D \_\_\_\_ E \_\_\_\_

- 6. What is the first thing you need to add to your PCR tube? (Label A):
- 7. What is the function of a "primer?"
- 8. What does DNA Polymerase do?



## **Analysis and Conclusions**

- 14. Why do you think that everything on your lab bench had to be in ice?
- 15. Why did the pipette change tips every time? What is this important?