

IDENTIFYING DNA CONCEPT QUESTIONS

ENZYME DIGEST CONCEPT QUESTIONS

1. What is an enzyme anyway?
2. What conditions influence how well an enzyme functions?
3. Do you think these conditions are also involved in how well a restriction enzyme functions? Why or why not.
4. Predict what would happen if the water bath or incubator were 100 degrees C?
5. What is the purpose for adding **restriction buffer** to the enzyme digest?
6. At what step or point in the lab will RFLP segments be formed? How are these fragments formed?
7. If populations of organisms have fragment lengths in common, what might that tell you about that population?

EXTENSION:

8. If offspring (children) result from the mating of two different RFLP populations, what would you predict their DNA fingerprint pattern might be?

