**Find Someone Who Can…**

|  |  |  |  |
| --- | --- | --- | --- |
| **Explain the purpose of DNA microarray** | **Describe the steps of bacterial transformation.** | **Define the function of ligase in creating a recombinant plasmid.** | **Describe the difference between the reaction mixes of PCR and Sanger sequencing.** |
| **Define BLAST and give an example of when it is useful.** | **Explain how gel electrophoresis is used in DNA fingerprinting.** | **Define the function of restriction enzymes and give an example of a technique that uses them.** | **Which DNA sequences can be patented and why?** |
| **Define “transgenic organism” and give an example of how they can be beneficial.** | **What type of RNA causes gene silencing in RNAi techniques?** | **What is the purpose of PCR?** | **How do ddNTPs facilitate Sanger sequencing of DNA?** |
| **Explain why DNA fingerprints are unique to every individual.** | **Describe the steps of a PCR thermal cycle.** | **Explain how to create cDNA.** | **Explain the function of antibiotic resistance genes on plasmids used for bacterial transformation.** |

Your task is to find someone in the class who knows the answer. They must “do” what is in the box and then sign his/her name.