

BioBusiness Quiz Game Questions

	Genetic Code	DNA and Such	Bio-Business	Genetic Transformation	Key Terms	Hodge Podge
200	Fact or fiction? 99.9% of a person's DNA is identical to everyone else's DNA.	Fact or fiction? No two people have identical DNA.	When placing bacteria colonies into pink and blue microtubes, why was one tube labeled + and one labeled - ?	Fact or fiction? Genetic Transformation is a brand new technique, and it does not have any "real world" applications yet.	What is Golden Rice?	What is the name of the circular bacterial DNA that is used to transfer a gene into a bacterium?
400	Fact or fiction? A person's muscle cell and a person's nerve cell are genetically identical.	How many chromosomes do humans have?	What was the purpose of adding bacteria to the cold calcium chloride solution?	Define Transformation.	What is the term for a sequence of DNA that codes for a protein and determines a trait?	What piece of equipment was used in the wet-lab to measure out very small quantities of liquid?
600	What are the four nucleotides that make up DNA, and which nucleotides pair up?	What is a restriction enzyme used for?	What purpose did heat shock and ice treatment serve in the wet-lab?	Explain one way genetic transformation might be used in agriculture.	Define recombinant DNA.	When a restriction enzyme cuts DNA it leaves one of two types of end where the cut took place. Name these two types of ends, and define them.
800	Give the nucleotide sequence that would complement this strand of DNA: CTTGACTTGGACC.	What is meant when someone refers to the "Blueprint of Life"?	What effect did adding the recombinant plasmid with pGLO™ have on the bacteria?	Explain the process of using bacteria to produce insulin.	What is a genetic marker?	In the wet-lab, what effect does adding arabinose to agar plates have on the bacteria?
1000	What does DNA stand for, and why is it important?	Explain how DNA codes for a trait.	Explain whether or not bacteria colonies appeared and if they glowed under UV light in each of the following agar plates: +DNA/LB/amp; +DNA/LB/amp/ara; -DNA/LB/amp; -DNA/LB.	In the wet-lab, E. coli bacteria was transformed. Give 3 reasons why E. coli is an ideal candidate for transformation.	Define genetic engineering.	In the wet-lab, some bacteria were placed on agar plates containing ampicillin. What is ampicillin and what does it do?