	Biotechnology: In Living Color	Mysterious Mixtures	Exploring Enzymes	Kitchen DNA with a Twist of Inquiry	GenomeCache®			
	Scientific and Engineering Practices							
Asking questions (for science) and defining problems (for engineering)		•	•	•				
Developing and using models			•		•			
Planning and carrying out investigations	•	•	•	•				
Analyzing and interpreting data	•	•	•	•				
Engaging in argument from evidence		•		•				
Obtaining, evaluating, and communicating information	•	•	•	•	•			
	Crosscutting Concepts							
Cause and Effect	•	•	•	•				
Scale, proportion, and quantity					•			
Structure and function		•	•	•				
	Biotechnology: In Living Color	Mysterious Mixtures	Exploring Enzymes	Kitchen DNA with a Twist of Inquiry	GenomeCache®			
					7th Grade Standards			
2. Gather and synthesize information to explain how prokaryotic and eukaryotic cells differ in structure and function, including the methods of asexual and sexual reproduction.				•				
3. Construct an explanation of the function (e.g., mitochondria releasing energy during cellular respiration) of specific cell structures (i.e., nucleus, cell membrane, cell wall, ribosomes, mitochondria, chloroplasts, and vacuoles) for maintaining a stable environment.				•				

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	8th Grade Standards			
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Physical Science Standards				
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Biology Standards				
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