

**Gateways to Biology: Our Living Planet**  
Texas Essential Knowledge and Skills (TEKS 2010)

Gateways to Biology		TEKS 2010	
Unit	Lesson	Process	Content
Understanding Life on Earth	1.1 Safety	1A, 1B	
	1.2 Nature of Science	1A, 1B, 2A, 2B, 2C, 2D, 2F, 2G, 2H, 3A, 3B, 3D, 3E, 3F	
	1.3 Water: The Molecule of Life	1A, 1B, 2A, 2E, 2F, 2G, 2H, 3E	9A, 9B, 12F
	1.4 The Dawn of Life	1A, 1B, 2B, 2C, 2D, 2F, 2G, 2H, 3A, 3B, 3F	4B, 7G, 9A, 9D, 10C
	1.5 History of Life on Earth	2C, 2F, 2G, 2H, 3A, 3D, 3E, 3F	4A, 4B, 7A, 7B, 7G, 11C, 11D, 12B, 12D, 12F

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Understanding Homeostasis	2.1 Internal Environment of Organisms	1A, 1B, 2B, 2C, 2F, 2G, 2H, 3D, 3F	4A, 4B
	2.2 Balance of Internal Environment	1A, 1B, 2F, 2G, 2H	4B
	2.3 Maintaining Internal Balance in the Human Body	1A, 1B, 2F, 2G, 2H	4B, 5B, 10A, 10C, 11A
	2.4 Responding to Our Environment	1A, 1B, 2F, 2G, 2H	5B, 10A, 10C, 11A, 11B
	2.5 Maintaining Internal Balance: Defending the Body from Disease	1A, 1B, 2F, 2G, 2H	4C, 10A, 10C, 11C, 12E

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Gateways to Science		TEKS 2010	
Unit	Lesson	Process	Content
Understanding Energy Transformations	3.1 Solar Energy Transformations	1A, 1B, 2B, 2E, 2F, 2G, 2H, 3A, 3F	4B, 5B, 9B, 10B, 10C, 11C, 12E
	3.2 Energy Transformations in Ecosystems	2G, 2H, 3E, 3F	10C, 11B, 11C, 11D, 12C, 12D, 12F
	3.3 Energy in Food	1A, 1B, 2F, 2G, 2H, 3B, 3C, 3D, 3E	9A, 9C, 11B
	3.4 Transforming Food Energy into Usable Nutrients	1A, 1B, 2F, 2G, 2H, 3B, 3C	5B, 9A, 9C, 10A, 10C, 11C
	3.5 Cellular Respiration and Energy Transformations	1A, 1B, 2F, 2G, 2H, 3B	4B, 9A, 9B, 10A, 10C, 11A, 11C

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Unit	Lesson	Process	Content
Understanding Growth and Development	4.1 DNA: The Molecule of Life	1A, 1B, 2F, 2G, 2H, 3A, 3B, 3D, 3E, 3F	4B, 5A, 6A,6B, 9A, 9D
	4.2 Cell Growth through Cell Division	1A, 1B, 2B, 2F, 2G, 2H, 3A, 3B, 3E	4B, 5A, 5B, 5C, 5D,6A, 6B, 9A, 9D
	4.3 Plant Growth and Development	1A, 1B, 2E, 2F, 2G, 2H, 3A	4B, 5A, 5B, 5C, 10B, 10C, 11A, 11B, 12E
	4.4 Reproduction	1A, 1B, 2F, 2G, 2H, 3A	4A, 4B, 5A, 6B, 6G, 8C, 10A,10B 10C, 11A, 11B

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Unit	Lesson	Process	Content
Understanding Heredity	5.1 Protein Synthesis	2G, 2H, 3E	4B, 5A, 6A, 6C, 6D, 6E, 9A, 9C, 9D
	5.2 Genetics	1A, 1B, 2F, 2G, 2H, 3A, 3C, 3F	6A, 6B, 6D, 6E, 6F, 6G
	5.3 Human Genetics	1A, 1B, 2F, 2G, 2H, 3B, 3C,	5C, 6A, 6B, 6D, 6E, 6F, 6G, 6H
	5.4 Biotechnology	1A, 1B, 2F, 2G, 2H, 3A, 3B, 3D, 3E, 3F	4B, 5C, 6H, 9A, 9D, 11C

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Understanding Biodiversity	6.1 Evolution	1A, 1B, 2C, 2D, 2F, 2G, 2H, 3A, 3B, 3D, 3E, 3F	5C, 7A, 7B, 7D, 7F, 11B, 11D, 12A, 12F
	6.2 Natural Selection	1A, 1B, 2B, 2F, 2G, 2H, 3A, 3D, 3E, 3F	5C, 6A, 6B, 6E, 7C, 7D, 7E, 7F, 11B, 11C, 11D, 12A, 12B, 12D, 12F
	6.3 Classification	1A, 2A, 2F, 2G, 2H, 3A, 3B, 3F	4A, 8A, 8B, 8C, 12B
	6.4 Sustaining Earth's Resources	1B, 2E, 2D, 2F, 2G, 2H, 3A, 3B	11D, 12B, 12D, 12E, 12F