

Texas Essential Knowledge and Skills
Education Floor Shows and Interactive Activities
Kindergarten - Second Grade

		Ultimate Science Lab	Combustion Show	Great Wall of Physics	Planet Hunter
K.1	Conducts classroom and outdoor investigations following safety procedures	x	x	x	
K.2	Develops abilities to ask questions and seek answers	x	x	x	
K.3	Information and critical thinking are used in scientific problem solving	x		x	x
K.4	Uses age-appropriate tools and models to investigate the natural world	x		x	x
K.5	Knows that objects have properties and patterns	x	x		x
K.6	Knows that energy, forces, and motion are related	x	x	x	
K.8	Knows that there are recognizable patterns in the natural world and among objects in the sky				x
K.9	Knows that plants and animals have basic needs and depend on the living and nonliving things around them for survival	x			
1.1	Conducts classroom and outdoor investigations following safety procedures	x	x	x	
1.2	Develops abilities to ask questions and seek answers	x	x	x	
1.3	Knows that information and critical thinking are used in scientific problem solving	x	x	x	x
1.4	Uses age-appropriate tools and models to investigate the natural world	x		x	x
1.5	Knows that objects have properties and patterns	x	x		x
1.6	Knows that force, motion, and energy are related and are a part of every day life	x	x	x	
1.8	Knows that the natural world includes the air around us and objects in the sky				x
1.9	Knows that the living environment is composed of relationships between organisms and the life cycles that occur	x			
2.1	Conducts classroom and outdoor investigations following safety procedures	x	x	x	
2.2	Develops abilities necessary to do scientific inquiry in classroom and outdoor investigations	x		x	
2.3	Knows that information and critical thinking are used in scientific problem solving, and the contributions of scientists are used in making decisions	x	x	x	x
2.4	Uses age-appropriate tools and models to investigate the natural world	x		x	x
2.5	Knows that matter has physical properties and those properties determine how it is described, classified, changed, and used	x	x		x
2.6	Knows that forces cause change and energy exists in many forms	x		x	
2.7	Knows that the natural world includes earth materials	x			
2.8	Knows that there are recognizable patterns in the natural world and among objects in the sky	x			
2.9	Knows that organisms have basic needs that must be met for them to survive in their environment	x			

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Texas Essential Knowledge and Skills
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Third - Fifth Grade

		Ultimate Science Lab	Combustion Show	Great Wall of Physics	Planet Hunter
3.1	Conducts classroom and outdoor investigations following safety procedures	x	x	x	
3.2	Uses scientific inquiry methods during laboratory and outdoor investigation	x	x	x	
3.3	Knows that information, critical thinking, scientific problem solving, and the contributions of scientists are used in making decisions	x	x	x	x
3.4	Knows how to use a variety of tools and methods to conduct science inquiry	x	x	x	x
3.5	Knows that matter has measurable physical properties and those properties determine how matter is classified, changed, and used	x	x		
3.6	Knows that forces cause change and that energy exists in many forms	x		x	
3.7	Knows that Earth consists of natural resources and its surface is constantly changing			x	
3.8	Knows there are recognizable patterns in the natural world and among objects in the sky				x
3.10	Knows that organisms undergo similar life processes and have structures that help them survive within their environments	x			
4.1	Conducts classroom and outdoor investigations following safety procedures	x	x	x	
4.2	Uses scientific inquiry methods during laboratory and outdoor investigation	x	x	x	
4.3	Uses critical thinking and scientific problem solving to make informed decisions	x	x	x	x
4.4	Knows how to use a variety of tools, materials, equipment, and models to conduct science inquiry	x	x	x	x
4.5	Knows that matter has measurable physical properties and those properties determine how matter is classified, changed, and used	x	x		
4.6	Knows that energy exists in many forms and can be observed in cycles, patterns, and systems	x		x	
4.8	Knows that there are recognizable patterns in the natural world and among the Sun, Earth, and Moon system				x
5.1	Conducts classroom and outdoor investigations following safety procedures	x	x	x	
5.2	Uses scientific inquiry methods during laboratory and outdoor investigation	x	x	x	
5.3	Uses critical thinking and scientific problem solving to make informed decisions	x	x	x	x
5.4	Knows how to use a variety of tools and methods to conduct science inquiry	x	x	x	x
5.5	Knows that matter has measurable physical properties and those properties determine how matter is classified, changed, and used	x	x		
5.6	Knows that energy occurs in many forms and can be observed in cycles, patterns, and systems	x		x	
5.8	Knows that there are recognizable patterns in the natural world and among the Sun, Earth, and Moon system				x

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**Texas Essential Knowledge and Skills
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Activities**
Sixth - Eighth Grade

		Ultimate Science Lab	Combustion Show	Great Wall of Physics	Planet Hunter
6.1	Conducts laboratory and field investigations following safety procedures	x	x	x	
6.2	Uses scientific inquiry methods during laboratory and field investigations	x	x	x	
6.3	Uses critical thinking, scientific reasoning, and problem solving to make informed decisions and knows the contributions of relevant scientists	x	x	x	x
6.4	Knows how to use a variety of tools and safety equipment	x	x	x	x
6.5	Knows the difference between elements and compounds	x	x		
6.6	Knows matter has physical properties that can be used for classification				
6.8	Knows force and motion are related to potential and kinetic energy	x		x	
6.9	Knows that the Law of Conservation of Energy states that energy can neither be created or destroyed, it just changes forms	x		x	
6.11	Understand the organization of our solar system and the relationships among the various bodies that comprise it	x			x
7.1	Conducts laboratory and field investigations following safety procedures	x	x	x	
7.2	Uses scientific inquiry methods during laboratory and field investigations	x	x	x	
7.3	Uses critical thinking, scientific reasoning, and problem solving to make informed decisions and knows the contributions of relevant scientists	x	x	x	x
7.4	Knows how to use a variety of tools and safety equipment	x	x	x	x
7.7	Knows that there is a relationship among force, motion, and energy	x	x	x	
7.9	Knows components of our solar system	x			x
8.1	Conducts laboratory and field investigations following safety procedures	x	x	x	
8.2	Uses scientific inquiry methods during laboratory and field investigations	x	x	x	
8.3	Uses critical thinking, scientific reasoning, and problem solving to make informed decisions and knows the contributions of relevant scientists	x	x	x	x
8.4	Knows how to use a variety of tools and safety equipment	x		x	x
8.5	Knows that matter is composed of atoms and has chemical and physical properties	x	x		
8.6	Knows that there is a relationship among force, motion, and energy	x		x	
8.8	Knows characteristics of the universe				x

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**Texas Essential Knowledge and Skills
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High School**

		Ultimate Science Lab	Combustion Show	Great Wall of Physics	Planet Hunter
IPC 1	Conducts laboratory and field investigations using safe, environmentally appropriate and ethical practices	x	x	x	
IPC 2	Uses scientific methods during laboratory and field investigations	x	x	x	
IPC 3	Uses critical thinking, scientific reasoning, and problem solving to make informed decisions	x		x	x
IPC 4	Knows concepts of force and motion evident in everyday life	x		x	
IPC 5	Recognizes multiple forms of energy and knows the impact of energy transfer and energy conservation in everyday life	x	x	x	
IPC 6	Knows that relationships exist between the structures and properties of matter	x	x		
IPC 7	Knows that changes in matter affect everyday life	x	x		
Chem 1	Conducts laboratory and field investigations using safe, environmentally appropriate and ethical practices	x	x	x	
Chem 2	Uses scientific methods to solve investigative questions	x	x	x	
Chem 3	Uses critical thinking, scientific reasoning, and problem solving to make informed decisions	x	x	x	x
Chem 4	Knows the characteristics of matter and can analyze the relationships between chemical and physical changes and properties	x			
Chem 7	Knows how atoms form ionic, metallic, and covalent bonds				
Chem 9	Understands the principles of ideal gas behavior, kinetic molecular theory, and the conditions that influence the behavior of gases	x			
Chem 10	Understands and can apply the factors that influence the behavior of solutions	x			
Chem 11	Understands the energy changes that occur in chemical reactions	x	x		

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