

Notes

- Aligned items address content included within a student expectation. However, many items do not address all aspects of the student expectation (i.e. SEPs and RTCs connections).
- Partially aligned items do not fully align with TEKS adopted in 2021.

2021 TEKS	2017 TEKS	Aligned	Partially Aligned	Not Aligned	Notes
<b>Matter and Energy</b>					
<b>(6)</b> The student knows that matter is made of atoms, can be classified according to its properties, and can undergo changes. The student is expected to:					
<b>(A)</b> compare solids, liquids, and gases in terms of their structure, shape, volume, and kinetic energy of atoms and molecules;	NEW				
<b>(B)</b> investigate the physical properties of matter to distinguish between pure substances, homogeneous mixtures (solutions), and heterogeneous mixtures;	NEW				
<b>(C)</b> identify elements on the periodic table as metals, nonmetals, metalloids, and rare Earth elements based on their physical properties and importance to modern life;	6(6)(A)		16 17 18 19		Rare Earth elements and importance to modern life added in 2021
<b>(D)</b> compare the density of substances relative to various fluids; and	6(6)(B)		20	21 22 23 24	Density calculation removed in 2021
<b>(E)</b> identify the formation of a new substance by using the evidence of a possible chemical change, including production of a gas, change in thermal energy, production of a precipitate, and color change.	6(5)(D) 2010	14 15			
	6(5)(C) 2017				
	6(5)(A) 2017			3 4 5	Moved to grade 7
	6(5)(B) 2017			6	Removed in 2021
	6(5)(C) 2010			7 8 9 10 11 12 13	Streamlined out in 2017 Can support new 7(6)(A) and (B)
	6(6)(C) 2017			25 26	Removed in 2021

2021 TEKS	2017 TEKS	Aligned	Partially Aligned	Not Aligned	Notes
<b>Force, Motion, and Energy</b>					
<b>(7)</b> The student knows the nature of forces and their role in systems that experience stability or change. The student is expected to:					
<b>(A)</b> identify and explain how forces act on objects, including gravity, friction, magnetism, applied forces, and normal forces, using real-world applications;	NEW				
<b>(B)</b> calculate the net force on an object in a horizontal or vertical direction using diagrams and determine if the forces are balanced or unbalanced; and	NEW				Moved down from grade 8
<b>(C)</b> identify simultaneous force pairs that are equal in magnitude and opposite in direction that result from the interactions between objects using Newton's Third Law of Motion.	NEW				Moved down from grade 8
	6(8)(B) 2017			38 39 40 41	Partially addressed in new 8(8)(A)
	6(8)(C) 2017			42 43	Moved to grade 7
	6(8)(D) 2017			44 45 46	Moved to grade 7
	6(8)(E) 2010			47 48	Streamlined out in 2017

2021 TEKS	2017 TEKS	Aligned	Partially Aligned	Not Aligned	Notes
<b>Force, Motion, and Energy</b>					
<b>(8)</b> The student knows that the total energy in systems is conserved through energy transfers and transformations. The student is expected to					
<b>(A)</b> compare and contrast gravitational, elastic, and chemical potential energies with kinetic energy;	6(8)(A)		31 32 33 34 35 36 37		Items focus on gravitational potential energy  Elastic and chemical potential energies added in 2021
<b>(B)</b> describe how energy is conserved through transfers and transformations in systems such as electrical circuits, food webs, amusement park rides, or photosynthesis; and	6(9)(C)	57 58 59 60			
<b>(C)</b> explain how energy is transferred through transverse and longitudinal waves	NEW				
	6(9)(A) 2017			49 50 51 52	Moved to grade 7
	6(9)(B) 2017			53 54 55 56	Moved to grade 7

2021 TEKS	2017 TEKS	Aligned	Partially Aligned	Not Aligned	Notes
<b>Earth and Space</b> <b>(9)</b> The student models the cyclical movements of the Sun, Earth, and Moon and describes their effects. The student is expected to:					
<b>(A)</b> model and illustrate how the tilted Earth revolves around the Sun, causing changes in seasons; and	New to grade 6 8(7)(A)				Moved down from grade 8
<b>(B)</b> describe and predict how the positions of the Earth, Sun, and Moon cause daily, spring, and neap cycles of ocean tides due to gravitational forces.	New to grade 6 8(7)(C)				Moved down from grade 8
	6(11)(A) 2017			71 72 73 74 75 76	Moved to grade 7
	6(11)(B) 2017			77 78	Moved to grade 7
	6(11)(C) 2017			79 80	Removed in 2021

2021 TEKS	2017 TEKS	Aligned	Partially Aligned	Not Aligned	Notes
<b>Earth and Space</b> <b>(10)</b> The student understands the rock cycle and the structure of Earth. The student is expected to:					
differentiate between the biosphere, hydrosphere, atmosphere, and geosphere and identify components of each system;	NEW				
model and describe the layers of Earth, including the inner core, outer core, mantle, and crust; and	6(10)(A)	61 62			
describe how metamorphic, igneous, and sedimentary rocks form and change through geologic processes in the rock cycle.	6(10)(B)	63 64 65			
	6(10)(C) 2017			66 67 68	Removed in 2021 May be used to support/extend learning in grade 7

6(10)(D) 2017			69 70	Moved to grade 7
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2021 TEKS	2017 TEKS	Aligned	Partially Aligned	Not Aligned	Notes
<b>Earth and Space</b> (11) The student understands how resources are managed. The student is expected to:					
(A) research and describe why resource management is important in reducing global energy poverty, malnutrition, and air and water pollution; and groundwater and surface water in a watershed; and	6(7)(A) 2010		27 28 29		Context of this standard has been expanded
(B) explain how conservation, increased efficiency, and technology can help manage air, water, soil, and energy resources.	6(7)(B) 2010		30		Streamlined out in 2017 but conservation was addressed as a science skill

2021 TEKS	2017 TEKS	Aligned	Partially Aligned	Not Aligned	Notes
<b>Organisms and Environments</b> (12) The student knows that interdependence occurs between living systems and the environment. The student is expected to:					
(A) investigate how organisms and populations in an ecosystem depend on and may compete for biotic factors such as food and abiotic factors such as availability of light and water, range of temperatures, or soil composition;	New to grade 6 8(11)(B) 2010 8(11)(A) 2017 6(12)(E) 2017		93 94 95 96		Moved down from grade 8  Can be used to review biotic/abiotic from grade 5 and/or to support new 6(12)(A)
(B) describe and give examples of predatory, competitive, and symbiotic relationships between organisms, including mutualism, parasitism, and commensalism; and	New to grade 6 8(11)(A) 2010				Previously addressed in grade 8 but was streamlined out in 2017
(C) describe the hierarchical organization of organism, population, and community within an ecosystem.	6(12)(F)	97 98 99 100			

2021 TEKS	2017 TEKS	Aligned	Partially Aligned	Not Aligned	Notes
<b>Organisms and Environments</b> <b>(13)</b> The student knows that organisms have an organizational structure and variations can influence survival of populations. The student is expected to:					
<b>(A)</b> describe the historical development of cell theory and explain how organisms are composed of one or more cells, which come from pre-existing cells and are the basic unit of structure and function;	6(12)(A)		81		Moved down from grade 7
<b>(B)</b> identify and compare the basic characteristics of organisms, including prokaryotic and eukaryotic, unicellular and multicellular, and autotrophic and heterotrophic; and	6(12)(B) 6(12)(D)	82 83 86 87 91	89 90 92	88	Characteristics of kingdoms was removed in 2021; Addressed in grade 7
<b>(C)</b> describe how variations within a population can be an advantage or disadvantage to the survival of a population as environments change.	New to grade 6 8(11)(C) 2010 8(11)(B) 2017				Moved down from grade 8
	6(12)(C) 2017			84 85	Taxonomy is addressed in grade 7

2021 TEKS	2017 TEKS	Aligned	Partially Aligned	Not Aligned	Notes
<b>Scientific and Engineering Practices</b> <b>(1)</b> The student, for at least 40% of instructional time, asks questions, identifies problems, and plans and safely conducts classroom, laboratory, and field investigations to answer questions, explain phenomena, or design solutions using appropriate tools and models. The student is expected to:					
<b>(C)</b> use appropriate safety equipment and practices during laboratory, classroom, and field investigations as outlined in Texas Education Agency-approved safety standards;	6(1)(A) 2017-	1			

Product Crosswalk for 2021 TEKS

(D) use appropriate tools such as graduated cylinders, metric rulers, periodic tables, balances, scales, thermometers, temperature probes, laboratory ware, timing devices, pH indicators, hot plates, models, microscopes, slides, life science models, petri dishes, dissecting kits, magnets, spring scales or force sensors, tools that model wave behavior, satellite images, hand lenses, and lab notebooks or journals;	6(4)(A) 2017	2			
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2021 TEKS	# of WUTS			
	Aligned to Grade 6	Partially Aligned to Grade 6	Not Aligned to Grade 6	Aligned to Grade 7 or Grade 8
Scientific and Engineering Practices	2	0	0	0
Matter and Energy	2	5	17	10
Force, Motion, and Energy	4	7	19	17
Earth and Space	5	4	15	13
Organisms and Environments	9	8	3	3
<b>TOTAL PERCENTAGE</b>	22%	24%	54%	43%