

Statewide Trends in Students' Performance

1. Number of items missed per year per objective	2003	2004	2005	2006	2007	2008
Nature of Science	1/13	0/13	0/13	1/13	1/13	1/13
Life Science	1/9	1/9	4/9	1/9	1/9	0/9
Physical Science	3/9	1/9	2/9	3/9	1/9	0/9
Earth Science	7/9	5/9	8/9	6/9	5/9	6/9
2. TEKS tested and missed per year	2003	2004	2005	2006	2007	2008
Nature of Science	5.2E	0	0	5.3C	5.3B	5.3A
Life Science	5.9A	3.8A	2.9B; 5.5A; 5.6C; 5.9B	5.9A	3.8D	0
Physical Science	5.7B; 5.7D; 5.8B	5.7C	5.5A; 5.7C	5.5B; 5.7D; 5.8B	5.8B	0
Earth Science	3.11C; 3.11D; 4.6A; 5.6B; 5.11A; 5.12A	4.6A; 4.11A; 4.11C; 5.12C	3.11A; 3.11C; 4.6A; 5.5A; 5.6A; 5.11A; 5.12A; 5.12C	3.6B; 3.11A; 5.5B; 5.6A; 5.11B; 5.11C;	5.12C; 5.6B; 4.11B; 5.11B; 5.12A	3.11A; 4.6A; 5.6A; 5.6A; 5.11B; 5.11C
3. Number of items missed per year per Grade Level	2003	2004	2005	2006	2007	2008
Nature of Science	1 in 5 th grade	0	0	1 in 5 th grade	1 in 5 th grade	1 in 5 th grade
Life Science	1 in 5 th grade	1 in 3 rd grade	1 in 2 nd grade 3 in 5 th grade	1 in 5 th grade	1 in 3 rd grade	0
Physical Science	3 in 5 th grade	1 in 5 th grade	2 in 5 th grade	3 in 5 th grade	1 in 5 th grade	0
Earth Science	2 in 3 rd grade 1 in 4 th grade 3 in 5 th grade	3 in 4 th grade 1 in 5 th grade	2 in 3 rd grade 1 in 4 th grade 5 in 5 th grade	2 in 3 rd grade 4 in 5 th grade	1 in 4 th ; 4 in 5 th	1 in 3 rd ; 1 in 4 th ; 4 in 5 th
4. Improvement in each objective over time	2003 at 60%	2004 at 67.5%	2005 at 75%	2006 at 75%	2007 at 75%	2008 at 75%
Nature of Science	76%	83%	86%	87%	85%	88%
Life Science	74%	79%	81%	85%	85%	88%
Physical Science	66%	74%	78%	80%	85%	85%
Earth Science	53%	60%	67%	69%	73%	74%
5. Improvement overall	2003 at 60%	2004 at 67.5%	2005 at 75%	2006 at 75%	2007 at 75%	2008 at 75%
Statewide met standard on Elementary TAKS	74%	69%	64%	75%	77%	81%

6. Statewide Science TAKS Data Over Time

Statewide TAKS Objective 1 Nature of Science																
TEKS	2003		2004		2005		2006		2007		2008					
3, 4, 5.1A safe practices	1	99	25	80	2	93	5	88	3	87	3	96				
					35	94	14	92			36	93				
							35	89								
3, 4, 5.2A experiment	14	74	4	92	32	78	32	80	8	95	27	91				
					25	61			39	91			13	92		
					37	92										
3, 4, 5.2B observe and measure	7	82	7	80	-	-	-	-	-	-	1	96				
					39	74	40	91								
3, 4, 5.2C analyze and interpret information	17	71	2	87	9	82	18	93	28	76	15	89				
					20	70	15	86	38	88	20	83	34	87	37	91
							37	79			5	85				
3, 4, 5.2D communicate valid conclusions	33	88	3	87	6	84	36	87	7	87	30	88				
					24	80							12	85		
			10	76	40	89										
3, 4, 5.2E construct graphs, tables, maps, charts using tools	29	32	-	-	-	-	-	-	12	78	18	81				
3, 4, 5.3A analyze, review scientific explanations including hypotheses and theories	-	-	-	-	14	79	10	76	-	-	24	63				
					33	82										
3, 4, 5.3B draw inferences related to products	5	86	13	79	-	-	3	98	15	73	10	86				
			38	78			40	92								
3, 4, 5.3C represent the natural world using models and identify their limitations	-	-	-	-	5	88	31	72	33	90	35	90				
3, 4, 5.4A collect and analyze information using tools	4	93	9	83	1	89	33	85	20	93	7	91				
	9	68	33	78	34	86	38	92	36	90						
Percent Mastery of TAKS 1		76%		83%		86%		87%		85%		88%				

Statewide TAKS Objective 2						Life Science						
TEKS	2003		2004		2005		2006		2007		2008	
	Item	Passing at 60%	Item	Passing at 67.5%	Item	Passing at 75%	Item	Passing at 75%	Item	Passing at 75%	Item	Passing at 75%
2.9A identify the external characteristics of plants and animals to meet their needs	-	-	26	77	-	-	39	90	29	84	20	88
2.9B compare and give examples of dependence on each other and environments	15	73	8	83	19	65	-	-	4	86	-	-
3.8A observe and describe the habitats of organisms within an ecosystem	-	-	30	65	-	-	11	81	-	-	32	88
3.8B observe and identify organisms with similar needs that compete for resources ie O2, H2O, food, or space	11	76	-	-	-	-	-	-	-	-	6	90
3.8C describe environmental changes in which organisms thrive, become ill, or perish	18	84	1	88	16	95	-	-	30	87	2	90
3.8D describe how living organisms modify their environment ie dams, homes	-	-	5	78	-	-	-	-	14	64	39	88
4.6A identify patterns of change such as weather, metamorphosis, and objects in the sky	-	-	-	-	-	-	6	90	35	89	9	82
5.5A describe cycles, structures, processes that are in a system	31	60	-	-	28	74	37	92	22	81	-	-
5.5B describe some interactions that occur in a system	-	-	35	72	40	92	8	85	1	91	11	91
5.6C describe and compare life cycles of plants and animals	-	-	-	-	29	73	1	95	-	-	29	88
5.9A compare the adaptive characteristics of species to survive and reproduce in an ecosystem	10 28	96 59	11	77	-	-	16	53	-	-	-	-
5.9B analyze and describe adaptive characteristics of organisms that are unique in an ecosystem	6	78	-	-	11	74	-	-	-	-	34	87
5.9C predict adaptive characteristics required for survival and reproduction	32	61	36	86	3	87	-	-	39	88	-	-
5.10A identify traits that are inherited in plants and animals	-	-	-	-	8	85	4 15	93 82	37	92	-	-
5.10B give examples of learned characteristics influenced by the environment	23	82	17	89	37	86	-	-	-	-	-	-
Percent Mastery of TAKS 2		74%		79%		81%		85%		85%		88%

Statewide TAKS Objective 3					Physical Science							
TEKS	2003		2004		2005		2006		2007		2008	
	Item	Passing at 60%	Item	Passing at 67.5%	Item	Passing at 75%	Item	Passing at 75%	Item	Passing at 75%	Item	Passing at 75%
3.6A measure and record changes in the position and direction of motion of an object to which a force of push or pull is applied	27	60	20	75	7	86	-	-	38	93	22	81
					31	76			40	91		
4.6A identify patterns of change ie weather, metamorphosis, objects in the sky	-	-	-	-	-	-	-	-	-	-	16	81
5.5A describe cycles, structures, processes in a system	-	-	18	70	24	66	-	-	-	-	-	-
5.5B describe interactions in a system	8	70	-	-	-	-	26	62	6	88	-	-
							29	77				
5.7A classify matter on its physical properties: magnetism, physical state, ability to conduct or insulate heat, electricity, sound	34	80	6	80	4	87	-	-	31	80	38	93
	38	82	-	-	36	84	-	-	-	-		
5.7B demonstrate that mixtures maintain physical properties of their ingredients	21	44	22	78	10	84	7	89	32	88	21	77
			39	82								
5.7C identify changes in physical properties of ingredients in solution	-	-	31	44	26	68	27	86	-	-	25	82
			34	83								
5.7D observe and measure properties that remain constant ie boiling points and melting points	40	38	32	70	-	-	9	72	-	-	33	83
5.8A differentiate among forms of energy ie light, heat, electrical, solar	-	-	-	-	-	-	2	93	2	93	-	-
5.8B identify and demonstrate how light is reflected, refracted	16	30	-	-	30	79	13	66	11	86	5	90
									26	62		
5.8C demonstrate that electricity can flow in a circuit and produce heat, light, sound, magnetic effects	2	92	-	-	13	76	19	85	18	84	13	87
5.8D verify that vibrating an object can produce sound	36	94	16	88	-	-	17	89	-	-	12	88
Percent Mastery of TAKS 3		66%		74%		78%		80%		85%		85%

Statewide Objective 4				Earth Science								
TEKS	2003		2004		2005		2006		2007		2008	
	Item	Passing at 60%	Item	Passing at 67.5%	Item	Passing at 75%	Item	Passing at 75%	Item	Passing at 75%	Item	Passing at 75%
3.6B identify that the surface of the Earth can be changed by forces ie earth quakes and glaciers	-		-		-		21	65	17	75	-	-
							30	75				
3.11A identify and describe Earth materials ie rocks, soil, water, gases of the atmosphere. Classify renewable, nonrenewable, inexhaustible	-		28	69	18	70	12	68	24	81	31	73
3.11C identify planets in our solar system and their position to the Sun	13	51	-	-	15	78	-	-	-	-	-	-
	26	61			20	61						
3.11D describe the characteristics of the Sun	22	42	14	68	-	-	-	-	-	-	-	-
	30	56										
4.6A identify patterns of change ie weather, metamorphosis, objects in the sky	35	38	10	76	21	66	-	-	16	75	8	70
			21	43								
4.11A test properties of soil ie texture, retention of water, ability to support life	3	73	27	42	-	-	-	-	-	-	-	-
4.11B summarize effects of oceans on land	-	-	-	-	-	-	-	-	23	66	28	75
4.11C identify the Sun as the major source of energy for Earth ie grow plants, create winds, water cycle	-	-	12	67	-	-	28	77	-	-	4	96
			19	54								
5.5A describe cycles, structures, processes in a system	-	-	23	70	22	56	-	-	-	-	-	-
5.5B describe interactions in a system	-	-	-	-	-	-	22	40	-	-	-	-
5.6A identify and describe changes of cycles ie daily, weekly, lunar, seasonal	-	-	-	-	25	65	25	64	-	-	23	66
5.6B identify significance of water, carbon, nitrogen cycles	19	56	-	-	-	-	-	-	21	73	19	67
									9	87		
5.11A identify and observe actions that require time for change ie growth, erosion, dissolving, weathering, flow	24	55	-	-	27	72	-	-	-	-	-	-
5.11B draw conclusions about “before” using date from tree-growth rings, rock sequences	-	-	-	-	-	-	24	74	25	72	26	71
5.11C identify past events that formed renewable, non-renewable, inexhaustible resources	-	-	-	-	-	-	23	72	-	-	17	70
5.12A interpret land forms forces ie constructive, destructive, sediment, weathering	12	49	-	-	17	72	34	85	27	71	14	80
5.12C identify characteristics of Earth and Moon	-	-	29	55	23	60	-	-	19	57	-	-
Percent Mastery of TAKS 4		53%		60%		67%		69%		73%		74%
Statewide Total Met Standard on the TAKS	2003	74%	2004	69%	2005	64%	2006	75%	2007	77%	2008	81%