

New Braunfels ISD Year at a Glance 2021-2022																	8th Grade Science																	July 2021																																																																																																																																																																																																																																																																															
Essential Resources																	District Resources to Teach 100% of the TEKS: STEMscopes and Discovery Education																																																																																																																																																																																																																																																																																																
Spiraled TEKS																	Scientific Investigations & Reasoning 8.1A & B, 8.2A, B, C & D, 8.3A, B, C & D and 8.4A & B																																																																																																																																																																																																																																																																																																
Timeline																	1st Quarter Aug 23 - Oct 15, 2021 (35 Instructional Days)																	2nd Quarter Oct 19 - Dec 17, 2021 (39 Instructional Days)																																																																																																																																																																																																																																																																															
Reporting Category																	Matter & Energy																	Force, Motion & Energy/Earth & Space																																																																																																																																																																																																																																																																															
Big Idea																	Science Introduction Structure of Atoms Periodic Table Chemical Formulas																	Chemical Reactions Force Motion																																																																																																																																																																																																																																																																															
Current Grade																	8.1A & B, 8.2 A, B, C, D & E, 8.3A, B, C & D, 8.4 A & B Journals, lab safety, comparative vs. descriptive investigations, use and conservation of resources, design and implement experimental investigations, construct tables and graphs, analyze data and include history of science and contributions of scientists as it relates to content *Revisit states of matter, mass, volume, calculating density, and types of variables*																	8.5A structure of atoms, and arrangement of periodic table including groups & period																	8.5B protons & valence electrons																	8.5C arrangement of periodic table including groups & periods																	8.5D chemical formulas & subscripts and aw of conservation of mass																	8.5E evidence of chemical reactions																	8.6A unbalanced forces change the speed or direction of an object's motion																	8.6B differentiate between speed, velocity and acceleration																	8.6C investigate and describe applications of Newton's three laws of motion																																																																																																																																																								
Pre-Assessing TEKS																	7.1A & B, 7.2A, B, & D, 7.3D, 7.4A & D and 6.1A & B, 6.2 A, B & D, 6.4A, and 6.6B*																	NONE																	NONE																	6.6A*																	6.5A																	7.6A*, 7.5A, & 6.5C																	7.7B, 6.11B*, 6.8B & 6.8C																	6.8C* & 6.8D*																	7.7B, 6.8B & 6.11B*																																																																																																																																																								
Timeline																	3rd Quarter Jan 4 - March 11, 2021 (47 Instructional Days)																	4th Quarter March 21 - May 28, 2022 (47 Instructional Days)																																																																																																																																																																																																																																																																															
Reporting Category																	Earth & Space																	Organisms & Environments																																																																																																																																																																																																																																																																															
Big Idea																	Characteristics of the Universe Theories of Origins of the Universe Rotation and Revolution of the Earth Lunar Cycle Tides Atmospheric Movement and Weather Role of Oceans in Weather																	Plate Tectonics Topographic Maps Interdependence Environmental Changes Dependence on Ocean Systems																	Taking a Second Look: Review Current and Previous Year TEKS and Prep for STAAR Wellness & Sexual Health Program																																																																																																																																																																																																																																																														
Current Grade																	8.8A components of the universe & H-R diagram																	8.8B recognize the Sun as a star located in a spiral arm of the Milky Way galaxy																	8.8C identify how different wavelengths of the electromagnetic spectrum are used to gain information about components in the universe																	8.8D research how scientific data are used as evidence to develop scientific theories to describe the origin of the universe																	8.7A model and illustrate how the tilted Earth rotates on its axis, causing day and night and revolves around the Sun causing changes in seasons																	8.7B demonstrate and predict the sequence of events in the lunar cycle																	8.7C relate the positions of the Moon and Sun to their effect on ocean tides																	8.10A recognizes that the Sun provides the energy that drives convection within the atmosphere and oceans, producing winds																	8.11B Identify how global patterns of atmospheric movement influence local weather using weather maps that show high and low pressures and fronts																	8.10C identify the role of the oceans in the formation of weather systems such as hurricanes																	8.9A describe the historical development of evidence that supports plate tectonic theory, relate plate tectonics to the formation of crustal features																	8.9C interpret topographic maps and satellite views to identify land and erosional features and predict how these features may be reshaped by weathering																	8.11A describe biotic and abiotic factors as they relate to competition within an ecosystem																	8.11B effects of short and long-term environmental changes on organisms & traits																	8.11C human dependence on ocean systems and how human activities have modified these systems																	Facilitate activities that reach and/or reinforce "hot spot" TEKS for which struggled to master throughout the year.																	Scott & White Wellness & Sexual Health Program																
Pre-Assessing TEKS																	NONE																	7.9A, 6.11A & 6.11B*																	NONE																	7.9B & 6.11C																	6.11A																	NONE																	NONE																	6.9A & 6.9B																	NONE																	NONE																	6.10A, 6.10C, & 6.10D																	7.8A, 7.8B & 7.8C*																	7.5B*, 7.10A, 7.10B* & 6.12E																	7.8A & 7.10C*																	NONE																																																		

Readiness standards are in bold * Standard eligible for assessment on Grade 8 STAAR