The Science Duo – TEKS Alignment Guide (Grade 8)

Complete Unit Bundles by TEKS

Includes Lesson Plans, PowerPoint and Notes, Interactive Notebook Pages, Phenomenon and Guided Practice Activities, Literacy Articles, Independent Practice Activities, S.C.I.E.N.C.E. Stations, Task Cards, Small Group Activities, Assessments, Warm-Ups, Homework Sheets, and Exit Tickets.

6th, 7th, and 8th Grade Pacing Guides	Pacing Guides
8.1C - use appropriate safety equipment and practices during laboratory, classroom, and field investigations as outlined in Texas Education Agency-approved safety standards.	Science Lab Safety Unit Bundle
8.6A - explain by modeling how matter is classified as elements, compounds, homogeneous mixtures, or heterogeneous mixtures	Elements, Compounds, and Mixtures Unit Bundle
8.6B - use the periodic table to identify the atoms involved in chemical reactions	Atoms in Chemical Reactions Unit Bundle
8.6C - describe the properties of cohesion, adhesion, and surface tension in water and relate to observable phenomena such as the formation of droplets, transport in plants, and insects walking on water	Cohesion, Adhesion, and Surface Tension Unit Bundle
8.6D - compare and contrast the properties of acids and bases, including pH relative to water	Acids and Bases Unit Bundle
8.6E - investigate how mass is conserved in chemical reactions and relate conservation of mass to the rearrangement of atoms using chemical equations, including photosynthesis	Conservation of Mass Unit Bundle
8.7A - calculate and analyze how the acceleration of an object is dependent upon the net force acting on the object and the mass of the object using Newton's Second Law of Motion	Acceleration Unit Bundle
8.7B - investigate and describe how Newton's three laws of motion act simultaneously within systems such as in vehicle restraints, sports activities, amusement park rides, Earth's tectonic activities, and rocket launches	Newton's Laws Unit Bundle
8.8A - compare the characteristics of amplitude, frequency, and wavelength in transverse waves, including the electromagnetic spectrum	Transverse Waves Unit Bundle
8.8B - explain the use of electromagnetic waves in applications such as radiation therapy, wireless technologies, fiber optics, microwaves, ultraviolet sterilization, astronomical observations, and X-rays	Electromagnetic Waves Unit Bundle
8.9A - describe the life cycle of stars and compare and classify stars using the Hertzsprung-Russell diagram	Life Cycle of Stars Unit Bundle Hertzsprung – Russell Diagram Unit Bundle
8.9B - categorize galaxies as spiral, elliptical, and irregular and locate Earth's solar system within the Milky Way galaxy	Galaxies Unit Bundle
8.9C - research and analyze scientific data used as evidence to develop scientific theories that describe the origin of the universe	Origins of the Universe Unit Bundle
8.10A - describe how energy from the Sun, hydrosphere, and atmosphere interact and influence weather and climate	Weather and Climate Unit Bundle
8.10B - identify global patterns of atmospheric movement and how they influence local weather	Atmospheric Movement Unit Bundle

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8.10C - describe the interactions between ocean currents and air masses that produce tropical cyclones, including typhoons and hurricanes	**Ocean Currents and Air Masses Unit Bundle**
8.11A - use scientific evidence to describe how natural events, including volcanic eruptions, meteor impacts, abrupt changes in ocean currents, and the release and absorption of greenhouse gases influence climate	**Natural Events and Climate Unit Bundle**
8.11B - use scientific evidence to describe how human activities, including the release of greenhouse gases, deforestation, and urbanization, can influence climate	**Human Activities and Climate Unit Bundle**
8.11C - describe the carbon cycle	**Carbon Cycle Unit Bundle**
8.12A - explain how disruptions such as population changes, natural disasters, and human intervention impact the transfer of energy in food webs in ecosystems	**Disruptions in Energy Transfer Unit Bundle**
8.12B - describe how primary and secondary ecological succession affect populations and species diversity after ecosystems are disrupted by natural events or human activity	**Ecological Succession Unit Bundle**
8.12C - describe how biodiversity contributes to the stability and sustainability of an ecosystem and the health of the organisms within the ecosystem	**Biodiversity Unit Bundle**
8.13A - identify the function of the cell membrane, cell wall, nucleus, ribosomes, cytoplasm, mitochondria, chloroplasts, and vacuoles in plant or animal cells	**Plant and Animal Cells Unit Bundle**
8.13B - describe the function of genes within chromosomes in determining inherited traits of offspring	**Function of Genes Unit Bundle**
8.13C - describe how variations of traits within a population lead to structural, behavioral, and physiological adaptations that influence the likelihood of survival and reproductive success of a species over generations	**Adaptations Unit Bundle**

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