

Academic Vocabulary

CONTENT BUILDER FOR THE PLC

SCIENCE
GRADE 5

Academic Vocabulary Analysis

Grade 5 Science

STANDARDS (TEKS): academic vocabulary directly taken from the standard

STAAR: academic vocabulary used on the assessment (source released tests)

STANDARD 5.5(A) classify matter based on physical properties, including mass, magnetism, physical state (solid, liquid, and gas), relative density (sinking and floating), solubility in water, and the ability to conduct or insulate thermal energy or electric energy

STANDARDS (TEKS)		STAAR	
Thinking	Content	Content	Common
Classify	Matter	Dense	Substances
	Physical properties	Dissolve	Ingredients
	Mass	Evaporate	Production
	Magnetism	Conductivity	
	Physical state	State of matter	
	Solid	Insulation	
	Liquid	Solution	
	Gas		
	Relative density		
	Sink		
	Float		
	Solubility		
	Conduct		
	Insulate		
	Thermal energy		
	Electric energy		
	Vocabulary term used on STAAR		

STANDARD 5.6(A) explore the uses of energy, including mechanical, light, thermal, electrical, and sound energy

STANDARDS (TEKS)		STAAR	
Thinking	Content	Content	Common
Explore	Energy	Rube Goldberg	[different applications of solar panels]
	Mechanical energy	Turbine	Dam
	Light energy		
	Thermal energy		
	Electrical energy		
	Sound energy		
	Vocabulary term used on STAAR		

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STANDARD 5.6(B) demonstrate that the flow of electricity in circuits requires a complete path through which an electric current can pass and can produce light, heat, and sound

STANDARDS (TEKS)		STAAR	
Thinking	Content	Content	Common
Demonstrate	Flow of electricity	Series circuit	Switch (noun)
	Circuit	Complete circuit	Battery (+/- ends)
	Electric current	Fuse	
	Light		
	Heat		
	Sound		
Vocabulary term used on STAAR			

STANDARD 5.6(C) demonstrate that light travels in a straight line until it strikes an object or travels through one medium to another and demonstrate that light can be reflected such as the use of mirrors or other shiny surfaces and refracted such as the appearance of an object when observed through water

STANDARDS (TEKS)		STAAR	
Thinking	Content	Content	Common
Demonstrate	Light	Absorb (light)	Lens
	Medium (noun)	Reflection	
	Reflect	Bend (light)	
	Mirror	Prism	
	Refract	Color spectrum	
Vocabulary term used on STAAR			

STANDARD 5.7(A) explore the processes that led to the formation of sedimentary rocks and fossil fuels

STANDARDS (TEKS)		STAAR	
Thinking	Content	Content	Common
Explore	Sedimentary rocks	Oil	
	Fossil fuels	Natural gas	
		Sediment	
		Compaction	
		Cementation	
		Erosion	
		Decompose	
		Decay	
Vocabulary term used on STAAR			

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STANDARD 5.7(B) recognize how landforms such as deltas, canyons, and sand dunes are the result of changes to Earth’s surface by wind, water, and ice

STANDARDS (TEKS)		STAAR	
Thinking	Content	Content	Common
Recognize	Landform	Sediment	Valley
	Delta	Erosion	Freezing
	Canyon	Deposit (deposition)	Thawing
	Sand dune	Glacier	
	Wind		
	Water		
	Ice		
	Vocabulary term used on STAAR		

STANDARD 5.7(C) identify alternative energy resources such as wind, solar, hydroelectric, geothermal, and biofuels

STANDARDS (TEKS)		STAAR	
Thinking	Content	Content	Common
Identify	Alternative energy	Fossil fuels	Generate
	Wind energy	[types of fossil fuels]	Environment
	Solar energy	[alternative energy generators, i.e. windmills, dams, solar panels]	
	Hydroelectric energy		
	Geothermal energy		
	Biofuels		
	Vocabulary term used on STAAR		

STANDARD 5.8(C) demonstrate that Earth rotates on its axis once approximately every 24 hours causing the day/night cycle and the apparent movement of the Sun across the sky

STANDARDS (TEKS)		STAAR	
Thinking	Content	Content	Common
Demonstrate	Rotate	Rotation	Sunrise
	Axis		
	Day/night cycle		
	Vocabulary term used on STAAR		

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STANDARD 5.9(A) observe the way organisms live and survive in their ecosystem by interacting with the living and non-living elements

STANDARDS (TEKS)		STAAR	
Thinking	Content	Content	Common
Observe	Organisms	Environment	Benefit
	Survive	Needs (noun)	
	Ecosystem	Predator	
	Interact		
	Living		
	Non-living		
Vocabulary term used on STAAR			

STANDARD 5.9(B) describe how the flow of energy derived from the Sun, used by producers to create their own food, is transferred through a food chain and food web to consumers and decomposers

STANDARDS (TEKS)		STAAR	
Thinking	Content	Content	Common
Describe	Flow of energy	Ecosystem	Role
	Producers	Populations	Transfer (energy)
	Food chain	Prey	
	Food web	Organism	
	Consumers		
	Decomposers		
Vocabulary term used on STAAR			

STANDARD 5.10(A) compare the structures and functions of different species that help them live and survive such as hooves on prairie animals or webbed feet in aquatic animals

STANDARDS (TEKS)		STAAR	
Thinking	Content	Content	Common
Compare	Structure	Adapt	
	Function	Predator	
	Species	Characteristics	
	Survival	Traits	
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STANDARD 5.10(B) differentiate between inherited traits of plants and animals such as spines on a cactus or shape of a beak and learned behaviors such as an animal learning tricks or a child riding a bicycle

STANDARDS (TEKS)		STAAR	
Thinking	Content	Content	Common
Differentiate	Inherited trait	Predator	
	Learned behavior		
	Vocabulary term used on STAAR		