

Academic Vocabulary

CONTENT BUILDER FOR THE PLC

SCIENCE
GRADE 5

PLEASE NOTE: The words contained in **Academic Vocabulary** are words/concepts/terms essential for concept development; this list is not intended to be comprehensive. The “new to grade level” vocabulary suggestions are a starting point, and educators are encouraged to refer to their district curriculum resources for additional words/concepts/terms.

Properties of Matter

5.6 Matter and energy. The student knows that matter has measurable physical properties that determine how matter is identified, classified, changed, and used.

important words for concept development					
subcluster	standards	new to grade level		previously introduced	
Physical Properties	5.6(A)	insoluble relative density*/ dense*/ more dense*/less dense*/most dense*/least dense*		conduct*/conductor*/ conductivity* dissolve* electric current electric energy electricity* insulate*/insulator*/ insulation*	magnetism* mass* matter particle physical property* physical state of matter* temperature* thermal energy*'
	3.6(C)			condensation* cooling* evaporation* heating*	states of matter* (solid, liquid, gas) water vapor*
Mixtures	5.6(B), 5.6(C)	filter* ingredient insoluble soluble/solubility	solute solvent substance	conserved dissolve* mass* matter mixture*	particle physical change physical property solution*
Atomic Theory	5.6(D)			gas matter particle	

Force and Motion

5.7 Force, motion, and energy. The student knows the nature of forces and the patterns of their interactions.

important words for concept development					
subcluster	standards	new to grade level		previously introduced	
Investigating Forces	5.7(A), 5.7(B)	conclusion control constant controlled variable dependent variable direction equal experimental investigation	hypothesis independent variable patterns system transfer of energy trial unequal variable	distance force* friction gravity magnetism	mass* mechanical energy motion* pull push
	3.7(A), 3.7(B)			attract distance force* friction gravity magnetism	motion* position* pull push repel

Energy

5.8 Force, motion, and energy. The student knows that energy is everywhere and can be observed in cycles, patterns, and systems.

important words for concept development					
subcluster	standards	new to grade level		previously introduced	
Transfer of Energy	5.8(A)	chemical energy conversion of energy energy transfer	Rube Goldberg* system transformation of energy	electric current electrical energy* energy* light energy*	mechanical energy* sound energy* thermal energy*
	4.8(A)			energy motion particle	sound waves transfer vibration
Electrical Energy	5.8(B)	closed path complete circuit* complete path* conductive material energy source	flow fuse load transform	circuit* closed circuit* conductor* electric current* electrical circuit electrical energy electricity	insulator light motion open circuit sound switch* thermal energy
Light	5.8(C)	absorb/absorption lens* medium opaque prism* reflection*/reflect/ reflected	refraction*/refract/ refracted translucent transmit transparent	light energy	

Space

5.9 Earth and space. The student recognizes patterns among the Sun, Earth, and Moon system and their effects.

important words for concept development				
subcluster	standards	new to grade level		previously introduced
Earth's Movement	5.9(A)	arc axis* day/night cycle* equator horizon	rise set shadow tilt	Earth rotation/rotate* Sun
	4.9(A), 4.9(B)			appearance cycle Earth lunar* Moon* orbit pattern revolve seasons sequence temperature
The Solar System	3.9(B)			inner planet (Mercury, Venus, Earth, Mars) model Moon orbit outer planet* (Jupiter, Saturn, Uranus, Neptune) planet* (Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune) solar system Sun*

Earth's Processes

5.10 Earth and space. The student knows that there are recognizable patterns and processes on Earth.

important words for concept development					
subcluster	standards	new to grade level		previously introduced	
Water Cycle	5.10(A)	moisture ocean currents solar energy* water vapor		accumulation/collection atmosphere clouds condensation* evaporation* ocean*	precipitation*(rain, hail, snow, sleet) Sun* temperature water cycle* weather
	4.10(A), 4.10(C)			accumulation*/collection atmosphere climate* condensation* cycle energy evaporation*	precipitation* (rain, hail, snow, sleet) runoff* solar energy thermal energy Sun temperature water cycle* weather*
Rock Cycle	5.10(B)	cementation* compaction* minerals	sedimentary rock* solidification	deposition* erosion*	sediment* weathering*
Landforms	5.10(C)	agent canyon* mesa*	U-shaped valley* valley* V-shaped valley	delta* deposition* erosion* glacier*	landform sand dune* sediment weathering*
	3.10(C), 4.10(B)			delta deposition earthquake* erosion erupt/eruption glacier landform landslide* natural hazard	natural resource physical environment sand dune sediment slow change soil weathering volcano*

Earth's Resources

5.11 Earth and space. The student understands how natural resources are important and can be managed.

important words for concept development				
subcluster	standards	new to grade level		previously introduced
Fossil Fuels	5.10(B)	cementation*	fossil fuel*	decomposition*
		coal*	natural gas*	sediment*
Resource Management	5.11(A)	compaction*	oil*	
		decay*	organic matter	
Resource Management	4.11(A)	formation*	sedimentary rock*	
		prototype		conservation disposal environment natural resource recycling
Resource Management	4.11(A)			abundance deplete conservation natural resource nonrenewable resource* (coal, petroleum/ oil*, natural gas*)
				recycle renewable resource* (air, plants, water, animals) replenish

Organisms and Environments

5.12 Organisms and environments. The student describes patterns, cycles, systems, and relationships within environments.

important words for concept development				
subcluster	standards	new to grade level		previously introduced
Biotic and Abiotic Factors	5.12(A)	abiotic biotic community population	ecosystem* interaction living*	nonliving organism* survive*
Food Webs	5.12(B)	cycling of matter	consumer* (herbivore, carnivore, omnivore) decomposers* ecosystem* flow of energy* food chain*	food web* organism* producer* Sun transfer of energy*
			community consumer decomposer ecosystem food chain food web	photosynthesis population predator prey producer Sun
Fossils	3.12(D)		environment evidence fossil*	organism paleontologist
Human Impact on Ecosystems	5.12(C)	human activities role	ecosystem organism	

Structure, Function, and Survival

5.13 Organisms and environments. The student knows that organisms undergo similar life processes and have structures and behaviors that help them survive within their environments.

important words for concept development				
subcluster	standards	new to grade level		previously introduced
Structure and Function	5.13(A)	species structural adaptation	adaptation ecosystem* environment	function organism* structure*
Traits and Behaviors	5.13(B)	behavioral traits instinct/instinctual* learned behavior*		offspring* parent survival