

Academic Vocabulary

CONTENT BUILDER FOR THE PLC

SCIENCE
GRADE 6

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

6.6 Matter and energy. The student knows that matter is made of atoms, can be classified according to its properties, and can undergo changes.

important words for concept development					
subcluster	standards	new to grade level		previously introduced	
Physical Properties	6.6(A), 6.6(B), 6.6(C), 6.6(D)	atom*	metal	conductivity*	particle
		brittle	metalloid	density*	physical property*
		ductility	molecule*	evaporation	property
		dull	nonmetal*	gas	relative density
		element*	periodic table*	liquid	shape
		fluorescence	phase change	magnetism	solid
		heterogenous mixture	pure substance	mass*	solution*
		homogeneous mixture	rare earth element	matter	structure
		kinetic energy*	solute	mixture	volume*
		luster	solvent		
		malleability*	water displacement method		
		meniscus			
Chemical Changes	6.6(E)	atom			physical property*
		chemical change			state of matter
		chemical property			thermal energy*
		chemical reaction*			
		corrosion			
		precipitate			

Force and Motion

6.7 Force, motion, and energy. The student knows the nature of forces and their role in systems that experience stability or change.

important words for concept development				
subcluster	standards	new to grade level		previously introduced
Force Interactions	6.7(A)	applied forces*		force
		contact force		friction*
		normal forces		gravity
				magnetism
				motion
Balanced and Unbalanced Forces	6.7(B), 6.7(C)	action-reaction forces	N/Newton*	force
		balanced force*	net force*	interaction
		direction	Newton's third law of motion	system
		free-body diagram	unbalanced force*	
		horizontal	vertical	
		magnitude		

Energy

6.8 Force, motion, and energy. The student knows that the total energy in systems is conserved through energy transfers and transformations.

important words for concept development				
subcluster	standards	new to grade level		previously introduced
Potential and Kinetic Energy	6.8(A)	elastic potential energy gravitational potential energy* kinetic energy* law of conservation of energy potential energy*		chemical energy* energy transformation
Transfer of Energy	6.8(B), 6.8(C)	law of conservation of energy longitudinal wave oscillation transverse wave wave		electrical circuit energy energy transfer energy transformation food web medium motion* photosynthesis

Sun, Earth, and Moon

6.9 Earth and space. The student models the cyclical movements of the Sun, Earth, and Moon and describes their effects.

important words for concept development			
subcluster	standards	new to grade level	previously introduced
Seasons	6.9(A)	cyclical equinox northern hemisphere* revolve/revolution* solstice southern hemisphere*	seasons*
Tides	6.9(B)	daily tides gravitational force high tide low tide neap tide ocean tide* spring tide tidal bulge tidal range	gravity lunar cycle orbit

Earth

6.10 Earth and space. The student understands the rock cycle and the structure of Earth.

important words for concept development				
subcluster	standards	new to grade level		previously introduced
Earth's Spheres	6.10(A)	biodiversity biosphere geosphere groundwater	hydrosphere surface water watershed	atmosphere ecosystem
Earth's Layers	6.10(B)	continental crust* crust inner core lithosphere	mantle oceanic crust* outer core	
Rock Cycle	6.10(C)	igneous rock lava magma metamorphic rock rock cycle	cementation compaction deposition* erosion*	sediment sedimentary rock weathering

Earth's Resources

6.11 Earth and space. The student understands how resources are managed.

important words for concept development				
subcluster	standards	new to grade level		previously introduced
Resource Management	6.11(A), 6.11(B)	air pollution	resource management	air
		efficiency	sustainability	conservation
		energy resources	technology	natural resources
		global energy poverty	water conservation	soil
		malnutrition	water pollution	water
		pollution		

Organisms and Environments

6.12 Organisms and environments. The student knows that interdependence occurs between living systems and the environment.

important words for concept development				
subcluster	standards	new to grade level		previously introduced
Biotic and Abiotic Factors	6.12(A)	biodiversity compete competition* food soil composition temperature range*		abiotic factor biotic factor ecosystem* environment interdependence light* organism population water
Organism Behavior and Relationships	6.12(B)	commensalism competitive ecological relationship host mutualism	niche organism parasite/parasitism predator/predatory symbiotic	prey
Hierarchical Organization in Ecosystems	6.12(C)	habitat hierarchy niche		community ecosystem* environment interdependence organism population species*

Characteristics and Variations of Organisms

6.13 Organisms and environments. The student knows that organisms have an organizational structure and variations can influence survival of populations.

important words for concept development			
subcluster	standards	new to grade level	previously introduced
Cell Theory	6.13(A)	cell cell theory*	organism
Characteristics of Organisms	6.13(B)	autotrophic* eukaryotic heterotrophic* multicellular prokaryotic unicellular*	
Ecosystem Stability	6.13(C)	genetic variation natural selection stability variation*	environmental change* population survival