

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.

Physical Properties of Matter

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

important words for concept development				
subcluster	standards	new to grade level		previously introduced
Properties of Matter	5.5(A)	dense*	conduct*/conductor*/ conductivity*	matter
		relative density*	dissolve*	physical property*
		solubility	electric energy	physical states of matter*
		soluble*	electricity*	substance*
			insulate*/insulator*/ insulation*	temperature*
			magnetism*	thermal energy*
			mass*	volume
	3.5(C)		condensation*	states of matter* (solid, liquid, gas)
			cooling*	water vapor*
			evaporation*	
			heating*	
Mixtures	5.5(B), 5.5(C)	ingredient	dissolve*	
		physical change	mixture*	
			physical property	
			property	
			solution*	

Force, Motion, and Energy

5.6 **Force, motion, and energy.** The student knows that energy occurs in many forms and can be observed in cycles, patterns, and systems.

important words for concept development				
subcluster	standards	new to grade level		previously introduced
Uses of Energy	5.6(A)	Rube Goldberg*		electrical energy* energy* light energy* mechanical energy* sound energy* thermal energy*
Electricity	5.6(B)	electric current* fuse parallel circuit series circuit*		battery circuit* closed circuit complete circuit* complete path* conductor* flow insulator* open circuit switch*
Light	5.6(C)	absorb lens* medium prism*	reflection* refraction* transmit	bend light energy mirror*
Force	5.6(D)	control experimental investigation hypothesis variable		conclusion force* friction gravity magnetism mass* pull push texture
	3.6(B)			force* motion* position*

Earth

5.7 **Earth and space.** The student knows Earth's surface is constantly changing and consists of useful resources.

important words for concept development				
subcluster	standards	new to grade level	previously introduced	
Rocks and Soil	5.7(A)	cementation* compaction* sedimentary rock*	decay* decomposition* deposition*	erosion* sediment* weathering*
	4.7(A)		components of soil gravel particle properties of soil	retain soil* (sand*, clay*, loam*, silt*) topsoil
Landforms	5.7(B)	canyon* sand dune U-shaped valley* valley* V-shaped valley	delta* deposition* erosion* freezing* glacier* ice	landform melting* sediment* thawing* weathering*
	3.7(B)		earthquake* erupt	landslide* volcano*
Renewable and Nonrenewable Resources	5.7(A)	biofuels pressure sedimentary rock*	decay* fossil fuel*	
	4.7(C)		conservation fossil fuel nonrenewable resources*	recycle renewable resources*

Weather

5.8 Earth and space. The student knows that there are recognizable patterns in the natural world and among the Sun, Earth, and Moon system.

important words for concept development				
subcluster	standards	new to grade level	previously introduced	
Weather	5.8(A)	climate* atmosphere	average cloud cover* humidity	weather* wind direction wind speed*
	4.8(A)		anemometer Celsius thermometer* (degrees Celsius) cloud cover* forecast meteorologist precipitation* rain gauge	temperature* weather weather map wind direction wind speed* wind vane windsock
Water Cycle	5.8(B)	ocean*	condensation* evaporation* ground water precipitation*	solar energy* water cycle* water vapor
	4.8(B)		accumulation* condensation* cycle evaporation* precipitation*	runoff* solar energy Sun water cycle*

Space

5.8 Earth and space. The student knows that there are recognizable patterns in the natural world and among the Sun, Earth, and Moon system.

important words for concept development				
subcluster	standards	new to grade level	previously introduced	
Rotation of the Earth	5.8(C)	axis* equator tilt	day/night cycle* orbit* revolve/revolution rotate*/rotation	shadow* sunrise* sunset*
	4.8(C)		appearance cycle full moon lunar cycle Moon new moon	pattern revolve rotate seasons sequence shadow*
Sun, Earth, and Moon	5.8(D)	crater satellite weight	atmosphere Earth* Moon*	physical characteristics* (temperature, size, composition, physical features, gravity) Sun*
Planets	3.8(D)		inner planet model Moon orbit outer planet* planet* (Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune)	relationship revolve/revolution solar system Sun*

Organisms and Environments

5.9 **Organisms and environments.** The student knows that there are relationships, systems, and cycles within environments.

important words for concept development				
subcluster	standards	new to grade level		previously introduced
Interactions in Ecosystems	5.9(A), 5.9(C), 5.9(D)	fossil	benefit*	model
		imprint	community	needs*
		interaction	compete*	nonliving*
		niche	consumer	organism*
		overpopulation	decay	paleontologist
		role*	ecosystem*	population*
		species	environment*	predator*
			interdependence	prey
			living (plants and animals)*	producer
				survive*
	3.9(A)		community	physical characteristic
			ecosystem	population
			environment	species
Food Webs	5.9(B)		carnivore	herbivore
			consumer*	omnivore
			decomposer*	organism*
			ecosystem*	producer*
			flow of energy*	Sun*
			food chain*	transfer (energy)*
	food web*			

Adaptations and Behaviors

5.10 Organisms and environments. The student knows that organisms have structures and behaviors that help them survive within their environments.

important words for concept development				
subcluster	standards	new to grade level		previously introduced
Adaptations	5.10(A)	behavioral adaptation structural adaptation	adapt* ecosystem* environment function	organism* species structure* survival*
Inherited Traits and Learned Behaviors	5.10(B)	instinct*	hibernation inherited trait* learned behavior* migration	mimicry offspring* parent
Life Cycles	3.10(B)		complete metamorphosis frog life cycle (egg, tadpole, froglet, frog) insect life cycle* (egg, larva, pupa, nymph, adult) lady beetle	life cycle* metamorphosis incomplete metamorphosis plant life cycle* (seed, seedling, adult plant, flower, fruit) stage*