

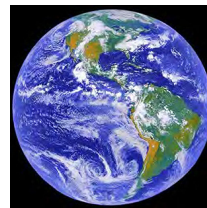
Glossary

High School Level

Physical Setting & Earth Science Glossary

English | Swahili

Translation of Physical Setting & Earth Science terms based on the Coursework for Physical Setting & Earth Science Grades 9 to 12.



This glossary is to PROVIDE PERMITTED TESTING ACCOMMODATIONS of ELL/MLL students. It should also be used for INSTRUCTION during the school year. The glossary may be downloaded, printed and disseminated to educators, parents and ELLs/MLLs.

[Please click here for the New York State Office of Bilingual Education and World Languages Webpage on "Assessment and Testing Accommodations"](#)





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EARTH SCIENCE GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
A	
abrasion	mchubuko
absolute age	umri kamili
absolute humidity	unyevu kamili
absolute zero	sifuri kamili
absorption	ufyonzaji
acid	asidi
acid rain	mvua ya asidi
acid test	jaribio la asidi
actual evapotranspiration	mvukizo halisi
adiabatic temperature change	mabadiliko ya halijoto ya adiabati
aeration	usafishaji kwa hewa
aerobic bacteria	bakteria ya hewa
aerosol	erosoli
air mass	wingi wa hewa
air pressure	shinikizo hewa
alkaline	alkali
alluvial fan	feni ya aluvia
altitude	mwinuko
anemometer	anemometa
anaerobic bacteria	bakteria ya anerobi
angle of isolation	pembe ya kutengwa
annual eclipse	kupatwa mwezi au jua kila mwaka
aphelion	apoapsisi
apogee	upeo wa sayari ikiwa mbali
apparent daily motion	mwendo dhahiri wa kila siku
apparent magnitude	ukubwa dhahiri
apparent planetary diameter	mduara dhahiri wa dunia
arete	ukingo mkali wa mlima
arid	kame
ash	jivu
atmosphere	angahewa
atmospheric pressure	kanieneo ya angahewa
atmospheric variables	vigezo anga
B	
barometer	kipimahewa
barometric pressure	kanieneo ya kipimahewa

EARTH SCIENCE GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
barrier beach	ufuo kizuizi
basin	kilindi
bed load	udondo baharini
bedrock	msingi wa mwamba
bench mark	alama teule
boulder	jabali
C	
calorie	kalori
canyon	korongo kuu
capillary	kapilari
carbon dating	njia ya kupima umri wa vitu vya kale
celestial object	vitu vya mbinguni
carrying power	uwezo wa kubeba
cementation	unganishaji
centrifugal force	kani nje
chemical weathering	kunyauka kwa kemikali
chlorofluorocarbons	kloroflurokaboni
cirque	Saki
clay	udongo
cleavage	mvunjiko
climate	tabia ya nchi
cloud	wingu
cold front	eneo baridi
colloids	koloidi
compound	msombo
compression	mfinyazo
compression wave	wimbi la mfinyazo
condensation	mtonesho
conduction	upitishaji
conservation of energy	uhifadhi wa nishati
continental drift	mwelekeo wa kontinenti
continental plate	bamba ya kontinenti
continental climate	tabia nchi ya kontinenti
continental shelf	bahari maanga ya kontinenti
continental tropical air mass	wingi wa hewa katika bara tropiki
contact metamorphism	metamofosisi kutokana na mgusano
conservation	hifadhi
convection	myuko
convectonal cell	seli ya myuko
convector	kifaa cha kupitisha joto
converge	kutana
coordinate system	mfumo wa uratibu
core	msingi
Coriolis effect	Athari ya Koriolisi
correlation	uwiano
crater	shimo la katikati ya mlima
crust	kigaga

EARTH SCIENCE GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
crystal	fuwele
cyclic change	mabadiliko ya duru
cyclone	tufani
D	
daily motion	mwendo kila siku
deficit	upungufu
degree	digrii
delta	delta
density	uzito
deposit	mashapo
desert	jangwa
desertification	kugeuza jangwa
Devonian Period	Kipindi cha Devonian
dew	umande
dew point temperature	halijoto ya umande
dike	handaki
dinosaur	dinosau
direct ray	mwali wa moja kwa moja
discharge	ondoa
displacements sediments	mashapo ya uhamisho
distorted structure	muundo uliogeuzwa
divergence	muachano
Doppler effect	Athari ya dopla
drainage	mifereji ya maji
drumlin	kilima
dry bulb thermometer	kipimajoto cha balbu kavu
duration of insolation	muda wa mwanga
dust storm	dhoruba ya vumbi
dynamic equilibrium	msawazo mkuu
E	
earthquake	tetemeko la ardhi
eccentricity	upekee wa tabia
electromagnetic energy	nishati ya sumakuumeme
element	elementi
eclipse	kupatwa mwezi au jua
elliptical	umbo yai
energy	nishati
epicenter	kitovu cha zilizala
equilibrium	msawazo
equinox	siku mlingano
erosion	mmomonyoko
escarpment	mharara
esker	eska
eutrophication	lishe kupita kiasi baharini
evaporation	uyeyukaji

EARTH SCIENCE GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
F	
fault	dosari
field	uwanja
focus	lengo
folded strata	tabaka zilizopindana
fossil	kisukuku
fracture	mvunjiko
friction	msugvano
front	mbele
G	
geocentric model	modeli ya kiwakilisha dunia kama kitovu
geographic poles	ncha za kijiografia
geologic time scale	kipimo wakati wa kijiolojia
geosyncline	bonde ardhini
glacier	mto wa barafu
graded bedding	udongo uliopangwa
gradient	mwinamo
gravity	mvutano
gram	gramu
greenhouse effect	athari ya nyumba ya kuhifadhi mimea
groundwater	maji ya ardhini
H	
half life	maisha nusu
heat energy	nishati ya joto
heat of fusion	joto la kuyeyusha
heat of vaporization	joto la uvuke
heliocentric model	mfano wa uwakilishi wa katikati mwa jua
high pressure	shinikizo la juu
horizontal	wima
horizontal sorting	upangaji wima
humidity	unyevu
hydrosphere	maji ya dunia
hypothesis	nadharia tete
I	
ice	barafu
igneous rock	miamba iliyoundwa na volkano
impermeable index fossil	kiolezo kisichopenyeka cha kisukuku
infiltration	upenyezaji
inner core	kiini cha ndani
insolation	mwanga
interface	kiolesura
intrusion	eneo linalomilikiwa na sehemu mbili
Intrusive igneous rock	miamba ya kujipenyeza iliyoundwa na volkano
ionosphere	sehemu ya nje ya dunia

EARTH SCIENCE GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
isobar	isobaa
isoline	isolini
isostasy	isostasi
isotherm	hali ya joto sawa
isotope	isotopu
J	
jet stream	mkondo ndege
joint	kiungo
K	
kame	kame
kettle	Birika
kinetic energy	nguvu ya mihanjo
Kepler's Law of Motion	Sheria ya Mwendo ya Kepler
L	
landscape	mandhari
latent heat	joto fiche
latitude	latitudo
latitudinal climate patterns	mipangilio ya tabia ya nchi ya latitudo
lava	lava
length	urefu
liter	lita
lithosphere	lithosfia
local noon	saa sita mchana
longitude	longitudo
low pressure (aired front)	shinikizo la chini (aired front)
luster	mng'aro
M	
magma	magma
magnetic declination	mkengeuko wa sumaku
mantle	joho
marine climate	hali anga ya bahari
maritime polar air mass	wingi wa hewa baharini
maritime tropical air mass	wingi wa hewa ya tropiki baharini
mass	wingi
matter	mata
meander	fuata mkondo
mean solar day	siku ya jua
measurement	kipimo
meniscus	meniskasi
meridian	meridiani
metamorphic rock	jiwe la metamofiki
meter	mita
mid-ocean ridge	mlimi chini ya bahari
milli	mili

EARTH SCIENCE GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
mineral	madini
mode	modi
moisture	unyevu
moho discontinuity	kikoo cha moho
mountain	mlima
O	
observation	uchunguzi
occluded front	mpaka baina ya tungamo hewa ya baridi na ya uvuguvugu
ocean floor spreading	kuenea kwa sakafu ya bahari
orbit	mzingo
orbital speed	kasi ya mzingo
organic	kikaboni
original horizontality	mlalo kiasili
outcrop	miamba nundu
outer core	sehemu ya nje ya ardhi
oxidation	uoksidishaji
P	
parallel	iliyo sambamba
perihelion	Perihelini
period	kipindi
permeability	na maji kuingia
phase	uwezo wa kupenyeka
plain	wazi
planetary winds	upepo wa dunia
plateau	uwanda wa juu
plate tectonic theory	nadharia ya platetoktoniki
polar	ncha za dunia
Polaris	polarisi
pollutants	vichafuzi
porosity	yenye kuvuja
potential energy	nishati inayowezekana
precipitation	mvua
pressure gradient	mwinamo wa shinikizo
primary waves	mawimbi msingi
prime meridian	meridiani kuu
R	
radiation	mnururisho
radioactive balance	usawazishaji wa kinunurishi
radioactive dating	ukadiriaji umri wa kinunurishi
radioactive decay	uozo wa kinunurishi
radio telescope	darubini ya redio
reargue	ubishani
reflection	kuakisi
refraction	kurudisha nuru

EARTH SCIENCE GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
refracting telescope	darubini ya kuakisi
regolith	regolithi
relative age	umri unaohusiana
relative humidity	unyevu unaohusiana
residual sediment	masazo
resource	rasilimali
revolution	mapinduzi
rock	mwamba
rock cycle	mzunguko wa mwamba
rock formation	umbo wa mwamba
rock resistance	ukinzani wa mwamba
rotation	uzungushaji
runoff	kurudiwa
S	
salinity	umunyu
saturation	ukifishwaji
scalar field	uga wa mizani
season	msimu
secondary wages	marupurupu ya pili
sediments	mashapo
sedimentary rocks	miamba ya mashapo
seismic waves	mawimbi ya tetemeko
senses	hisia
silicon-oxygen tetrahedron	tetrahedroni ya oksijeni ya silikoni
sink (energy)	zama (nguvu)
seismograph	seismografu
slope	mteremko
soil horizon	tabaka ya mchanga
soil profile	wasifu wa mchanga
soil storage	hifadhi ya mchanga
solar noon	saa sita mchana
solar system	mfumo wa sola
solid	mango
solidification	ugandishaji
solstices	solistasi
sorting of sediments	upangaji wa mashapo
source (energy)	chanzo (nishati)
source (region)	chanzo (eneo)
specific heat	joto maalum
species	spishi
stationary front	hewa isio hamishika
strata	tabaka
streak	mfuo
stream bed	mkondo wa maji
stream discharge	utokezaji wa mkondo
subsidence	kudidimia
sundial	saa za vivuli

EARTH SCIENCE GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
sublimation	utakasaji
superposition	uwekaji juu ya kitu kingine
surplus	ziada
suspension	kusimamishwa
syncline	siklini
T	
technology	teknolojia
tectonics	tektoniki
temperature	halijoto
terrestrial motions	mienendo ya nchi kavu
texture	umbile asili
tilted strata	tabaka iliyoinama
time	muda
topographic map	ramani ya topografia
track	njia
transformation	ugeuzaji
transition	mpito
transpiration	kutoa jasho/mvuke
transport	safirisha
transporting system	mfumo wa usafirishaji
transverse wave	mawimbi ya kingamo
U	
ultraviolet	urujuani
uplifting force	nguvu ya kuinua
uranium	uraniamu
usage	matumizi
V	
valley glacier	mto wa barafu wa bonde
vapor	mvuke
vapor pressure	kanieneo ya mvuke
variable	ya kubadilika
vector field	uga wa vekta
vein	mshipa
vertical	wima
visible light spectrum	spektramu inayonekana ya mwanga
visibility	uonekanaji
volcano	volkano
volcanic ash	jivu la volkano
volume	sauti
W	
waning	upunguzaji mwanga
warm front	eneojoto
water budget	bajeti ya maji
water cycle	mzunguko wa maji

EARTH SCIENCE GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
water purification	usafishaji wa maji
water shed	eneo la maji
water table	eneo la ukifishwaji wa maji
water vapor	mvuke wa maji
wavelength	urefu wa wimbi
waxing	mng'aro
weather prediction	utabiri wa hali ya hewa
weathering	mabadiliko ya hali ya hewa
weight	uzani
wind	upepo
Y	
year	mwaka