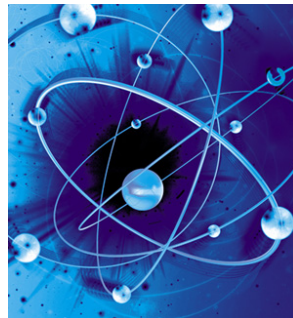
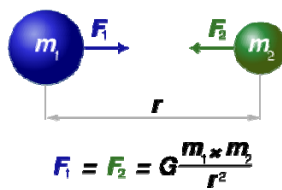


# Glossary

High School Level

## Physics Glossary

English / Swahili



Translation of Physics terms based on the Coursework for Physics Grades 9 to 12.

Word-for-word glossaries are used for testing accommodations for ELL/LEP students





THE STATE EDUCATION DEPARTMENT / THE UNIVERSITY OF THE STATE OF NEW YORK / ALBANY, NY 12234

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**P-16**

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PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
<b>A</b>	
aberration	mkengeuko
ability	uwezo
absence	-tokuwepo
absolute scale	kipimo halisi
absolute zero	sufuri halisi
absorption	ufyonzaji
absorption spectrum	spektra ya ufyonzaji
accelerate	chapuka
acceleration	mchapuko
acceleration of gravity	mchapuko wa mvutano
accentuate	tia mkazo
accompany	andamana
accomplish	timiza
accordance	kwa mujibu wa/kufuatana na
account	eleza
accumulate	limbikiza
accuracy	usahihi
accurate	sahihi
achieve	fanikisha
acoustics	mazingira sikizi
action	tendo
activity	shughuli
actual	halisi/iliopo
addition	nyongeza
adhesive	-a kunata
adjacent	mkabala
advantage	manufaa
aerodynamics	mwendo wa vitu hewani
air pollution	uchafuzi wa hewa
air resistance	ukinzani wa hewa
air track	mkondo wa hewa
aircraft	ndege
airfoil	umbo la bawa
airplane	ndege
alcohol	kileo
algebra	algebra
allow	ruhusu
alternating current generator	genereta ya kubadilisha mkondo wa umeme
altimeter	altimeta
aluminum	aluminiamu
amber	kaharabu
ammeter	ameta
ampere	ampea
amplitude	tambo
analogy	analojia

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
analysis	uchanganuzi
analyze	changanua
antinodal line	mstari wa antinodi
anemoscope	kionyesha mwelekeo wa upepo
aneroid	hakitumii au hakina ugiligili
aneroid barometer	kipimahewa ambacho hakitumii au hakina ugiligili
angle	pembe
ant.; antenna	ant.; antena
antinode	antinodi
antiparticle	punje
apparent	dhahiri
appendix	kiambatisho
applied force	nguvu iliyotumika
approach	njia
aquarium	tangisamaki
arbitrary	holela
arc	tao
archer	mpiga mishale
Archimedes' principle	Kanuni ya Archimedes
architect	msanifu majenzi
area	eneo
argon	agoni
Aristotle	Aristotle
armature	amecha /deraya
arrow	mshale
arrangement	mpangilio
artificial	bandia/iliyoundwa
artificial radioactivity	mnururisho ulioundwa
artillery	mizinga
aspect	kipengele
assemble	unganisha
assume	dhania
assumption	madhanio
astronomer	mwanafalaki
astronomical	-a kifalaki
astronomy	falaki
athlete	mwanariadha
atmosphere	angahewa
atmospheric	-a hewa
atom	atomu
atomic energy	nishati ya atomu
atomic mass unit	kizio cha uzito wa atomu
atomic number	namba ya atomu
attach	ambatisha
attain	fikia
attract	vutia
attraction	mvuto

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
attractive	-a kuvutia
audience	hadhira
auditorium	bwalo/ukumbi
auditory	-a kusikizia
aurora	mwanga
aurora borealis	mwanga wa kaskazini
automobile	gari
average	wastani
average speed	kasi ya wastani
average velocity	kasimwelekeo ya wastani
axis	mhimili
axle	ekseli
<b>B</b>	
back - EMF	nyuma - EMF
baffle	kanganya
balance	usawa
barometer	kipimahewa
barrel	pipa
barrier	kikwazo
baryon	baryoni
base level	kiwango cha chini kabisa
basic equation	mlinganyo wa msingi
basin	kibia
basis	msingi
batter	ponda ponda
battery	betri
bead (ex., optic bead)	kashabu (mfano, taswira ya kashabu)
beaker	bika
beam balance	mhimili mzani
beat	piga
behave	tenda
behind	nyuma
bend	pinda
beneath	chini ya
bent	pindika
Bernoulli's principle	kanuni ya Bernoulli
beyond	zaidi ya
billiard	biliadi
bimetallic	yenye metali mbili
bimetallic strip	kipande kilicho na metali mbili
binding energy	nishati ya lazima
binocular	durubini
black-hole	shimo-jeusi
blade	ubapa
block	kapi
blue	samawati

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
blur	waa/tia waa
bob	rukaruka
boiling	kuchemka
boiling point	kiwango cha kuchemka
boldface	uso mkakamavu
bolt	komeo
Boltzmann constant	fomula ya kudumu ya Boltzmann
bond	mapatano
boreal; borealis	uande wa kaskazini
bounce	ruka
boundary	mpaka
bow	upinde/uta
bowling ball	mpira wa tufe
bowstring	kamba la upinde/uta
Boyle's law	kanuni ya Boyle
brain	ubongo
branch	tawi
brass	shaba
breeder reactor	mtambo wa nyuklia
brick	tofali
brief	fupi
bristle	nyoya paruparu
broadcast	tangaza
bubble	puto
bubble chamber	chumba cha puto
bug	dudu
bugle	buruji
bulge	mbenuko
bullet	risasi
buoyancy	ueleaji
buoyant	inayoelea
buoyant force	nguvu ya ueleaji
burglar	mwizi
burglar alarm	kengele ya mwizi
by virtue of	kwa adili ya
<b>C</b>	
cable	kebo
cadmium	kadimi
cadmium sulfide	kadimi sulfidi
calculate	kokotoa
calculus	kalkulasi
calibrate	kadiria
caloric	-a kalori
caloric theory	nadharia ya kalori
calorie	kalori
calorimeter	kipimajoto

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
camp	kambi
camper	mpiga kambi
candelabra	vinara vya mshumaa
candle	mshumaa
cannonball	mpira wa mzinga
canoe	ngalawa
canyon	korongo kuu
capable	mahiri
capacitance	uwezo
capacitor	kapasita
capacity	ujazo
capillary	kapilari
capillary action	kitendo cha kapilari
capsule	kapsuli
carbon	kaboni
carbon grain	chembe ya kaboni
carbon tetrachloride	kaboni tetrakloridi
carpet	zulia
carton	katoni
case	kesi
cast	tupa
catheter	katheta
cathode	kathodi
cathode-ray tube	mrija wa mwale wa kathodi
cause	sababu
cavity	mvungu
celestial	-a anga
Celsius Scale	Kipimo cha Celsiusi
cement	saruji
centimeter	sentimita
centripetal	Katikati/tovu
centripetal acceleration	mchapuko kitovu
centripetal force	kani tovu
cesium	sesiam
chamber	chumba
characteristic	sifa bainifu
charge	chaji
charged	iliyochajiwa
charging by conduction	kuchaji kupitia upitishaji
charging by induction	kuchaji kupitia usakinishaji
Charles' Law	Kanuni ya Charles
chimney	dohani
chloroform	klorofomu
chord	uzi
chromatic	yenye rangi
chromatic aberration	ufarakano wa rangi
circuit	saketi

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
circuit breaker	kikate
circular	ya mviringo
clarinet	zumari
clarity	bayana
clockwise	kushoto-kulia
club	klabu
cluster	kishada
cobalt	kobalti
cochlea	komboli
coefficient	kizigezi wiano
coefficient of friction	kizigezi wiano cha msugvano
coefficient of linear expansion	kizigezi wiano cha upanuzi wa mstari
coefficient of volume expansion	kizigezi wiano cha upanuzi wa ujazo
cohesive	-a kuambatana
cohesive force	kani mwambatano
coil	koili
coincidence	nasibu
collect	kusanya
collection	mkusanyiko
collide	gongana
collision	mgongano
column	safuwima
combination	muunganiko
combustion	mwako
commercial	-a kibiashara
commutator	komutata
compare	linganisha
comparison	ulinganisho
compartment	chumba
compass	dira
complementary	-a kukamilishana
complementary colours	rangi za kukamilishana
complementary pigment	pigmenti za kukamilishana
complex	tata/changamani
component	kipengele
compress	gandamiza
compression	mgandamizo
Compton effect	athari ya Compton
concave	-a mbonyeo
concave lens	lenzi mbonyeo
concave mirror	kioo mbonyeo
concept	dhana
concrete	thabiti
concurrent forces	kani sambamba
condensation	mtonesho
condense	tonesha
conduct	pitisha



PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
conduction	upitishaji
conductivity	uwezo wa upitishaji
conductor	kipitisho
cone	pia
confine	fungia
congruent	-a kulingana
consciousness	ufahamu
consequence	matokeo
conservation	uhifadhi
conservation law	sheria ya uhifadhi
consider	zingatia
consist	jumuisha
consonance	mapatano
constant	sio badilika
constructive	jenzi
constructive interference	mwingiliano jenzi
contact	kiungo
contain	jumuisha
contract	bana
contraction	mnyweo
contrast	tofautisha
control	dhibiti
control rod	banzi dhibiti
convalescence	muda wa kupata ahueni
convection	mnyuko
convenient	rahisi
converging lens	lenzi za kukutana
conversion	ugeuzaji
convert	geuza
convex	mbinuko
convex lens	lenzi mbinuko
convex mirror	kioo mbinuko
copper	shaba
cord	uzi
cornerstone	jiwe la pembeni
corresponding	linganifu
cosine	kosi
coulomb	kulamb
Coulomb's Law	Kanuni ya Kulamb
crack	ufa
craft	sanaa
crate	kreti
crest	kilele
critical	uhakiki
critical angle	pembe ya uhakiki
crowded	imesongwa
crown glass	glasi ya taji

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
crystal	fuwele
crystal lattice	kiunzi cha fito cha fuwele
crystalline	msitari wa fuwele
cube	mchemraba
cubic	-a mche mraba
cubic meter	mita za ujazo
curious	-a shauku
curvature	mpindo
curve	mchirizo
cyan	samawati
cycle	mzunguko
cymbal	matuazi
cylinder	silinda
<b>D</b>	
damage	uharibifu
dart	mshale
data	data
de Broglie Principle	kanuni ya de Broglie
decay	oza
deceleration	mteremko
deci	desi
decibel	desibeli
decimeter	desimita
deck	staha
decrease	upungufu
define	fasili
definite	-enye mpaka
deformation	lemavu
degree	digrii
deka = deca	deka
decameter	dekamita
deliver	Wasilisha/toa
demonstration	kielelezo
density	uzito
depend	tegemea
dependent variable	kigeugeu tegemezi
derive	nyambua
derived unit	kizio kilichonyambuliwa
descend	shuka
descent	mteremko
design	unda
destructive	-a haribifu
destructive interference	mwingiliano haribifu
detection	ugunduzi
detector	kigunduzi
determine	amua

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
deviate	kengeuka
device	kifaa
dewdrop	tone la umande
dew point	kiwango umande
diameter	kipenyo
diamond	almasi
diaphragm	kiwambo
differ	tofautiana
difference in electric potential	utofauti katika uwezo kwa kiumeme
diffract	sambaa
diffraction	msambazo
diffraction grating	kiunzi cha msambazo
diffuse	tawanya
diffuse reflection	tawanya uakisi
digit	tarakimu
dimension	kipimo
dimmer	kiwashio
dip	zamisha
direction	mwelekeo
directly	moja kwa moja
discover	gundua
disintegrate	sambaratisha
disorder	vuruga
disperse	tawanya
dispersion	mtawanyo
displace	hamisha
displacement	mhamisho
disprove	kanusha
disregard	puuza
dissipate	tokomea
dissonance	sauti zisizolingana
distance	umbali
distant	-a mbali
distort	haribu
distortion	uharibifu
distribute	sambaza
disturb	sumbua
disturbance	usumbufu
dive	piga mbizi
diver	mpiga mbizi
diverge	kengefu
diverging lens	lenzi mwachano
divide	gawa
divider	kigawanyaji
division	mgao
dock	kuli
dockhand	mpakizi

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
dog	mbwa
domain	kikoa
Doppler	Doppla
Doppler effect	Athari ya Doppla
Doppler shift	kuhama kwa Doppla
double	mara dufu
double slit diffraction	mkengeuko wa mkato maradufu
drag	kokota
draw	chora
drop	tone
droplet	matone
drum	ngoma
ductility	ushikamano
dust	vumbi
dynamics	mienendo
<b>E</b>	
ear	sikio
eardrum	kiwambo cha sikio
echo	mwangwi
eclipse	kupatwa
eclipse of the sun	kupatwa kwa jua
ecological	kiikolojia
ecology	ekolojia
economical	-a kiuchumi
effect	athari
effective	fanisi
effective resistance	ukinzani sanifu
effectively	kwa ufanisi
efficiency	ufanisi
effort	juhudi
Einstein	Einstein
elastic	nyumbufu
elastic collision	mgongano nyumbufu
elasticity	unyumbufu
electric	umeme
electric current	mkondo wa umeme
electric field	eneo la umeme
electric field intensity	nguvu za eneo umeme
electric field line	mstari wa eneo la umeme
electric force	kani umeme
electric generator	jenerator la umeme
electric potential	uwezo wa umeme
electrode	elektrodi
electromagnet	sumaku-umeme
electromagnetic	-a sumaku-umeme
electromagnetic force	kani ya sumaku-umeme

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
electromagnetic induction	upitishaji wa sumaku-umeme
electromagnetic wave	wimbi la sumaku-umeme
electromagnetism	usumaku-umeme
electromotive (EMF)	nyendo umeme (EMF)
electron	elektroni
electron cloud	wingu la elektroni
electroscope	kifaa cha elektroni
elevator	lifti
eliminate	ondoa
ellipse	duaradufu
elongation	kurefusha
embed	pachika
emerge	ibuka
emergency	dharura
emission spectrum	spektra ya kutoa
emit	toa
empirical	jarabati
enable	wezesha
enclose	ambatanisha
encounter	kabiliana
energetic	-enye nguvu
energetic state	hali ya nguvu
energy	nishati
energy crisis	mgogoro wa nishati
energy level	kiwango cha nishati
engineer	mhandisi
enormous	kubwa
enrichment	kutajirisha
enter	ingia
entropy	kipimo cha kelele
equation	mlinganyo
equator	ikweta
equilibrant	-a ulunganifu
equilibrant force	nguvu ya mlingano
equilibrium	ulinganifu
equilibrium position	sehemu ya ulinganifu
equipment	vyombo
equivalent	sawa
erect	simamisha
essence	kiini
essentially	kimsingi
ether	etha
evaporate	vukiza
evaporation	mvuke
evenly	sawasawa
evenness	usawa
eventually	hatimaye

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
evidence	ushahidi
except	isipokuwa
exception	kinzano
excited state	hali ya msisimko
exert	kaza
exhaust	chenua
exhibit	onyesha
exist	wepo
expand	panua
expansion	upanuzi
expect	tarajia
expel	fukuza
experiment	jaribio
explore	chunguza
exponent	namba kipeo
exponential	-a namba kipeo
exponential notation	nukuu za namba kipeo
exposure	mfichuo
express	elezea
extend	eneza
external	-a nje
external force	kani ya nje
extrapolation	kubashiri thamani ya tarakimu
extreme	kithiri
extremely	iliyokithiri
<b>F</b>	
faint	zimia
Farad	Faradi
farsightedness	hali ya kuona mbali
feat	tendo gumu
fiber	uzi
fiber optics	nyuzinyuzi za kioo
fiction	habari za kubuniwa
field	uga
filament	nyuzinyuzi
final velocity	kasi ya mwisho
finger	kidole
first law of motion	sheria ya kwanza ya mwendo
first neutron	nyutroni ya kwanza
first-order-line	mstari wa kwanza wa mpangilio
fission	ugavi
fixed	isobadilika
flame	mwali
flare	waka
flatten	tandaza
flick	zungusha

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
flint glass	kioo kigumu
float	elea
fluid	ugiligili
fluorescent lamp	taa ya umeme
flute	filimbi
flux	tindikali
focal	kitovu
focal length	urefu wa kitovu
focal point	kitovu
focus	kiini
fog	ukungu
force	Nguvu/kani
force of friction	kani ya msugvano
fork	uma
form	muundo
fraction	sehemu
frame	kiunzi
frame of reference	kiunzi cha marejeo
framework	mfumo
freedom	uhuru
free-fall	mwanguko
freezing point	hatua ya kuganda
Freon	Freoni
frequency	marudio
frequently	mara kwa mara
friction	msugvano
frictional	-enye msugvano
frictionless	bila msugvano
frozen	ilioganda
fundamental	msingi
fur	unyoya
furthermore	isitoshe
fuse	fyuzi
<b>G</b>	
gain	faida
galaxy	galaksi/kundi la nyota
galvanometer	galvanometa
galvanic	-a nguvu ya umeme wa betri
galvanic cell	betri
Gamma ray	Miale ya Gamma
gap	mwanya
gas	gesi
gas law	sheria ya gesi
gaseous	-enye gesi
gasoline	petroli
gauge	geji

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
Geiger-Muller tube	neli ya majaribio ya Geiga-Muller
general theory of relativity	nadharia ya jumla ya uhusiano
generate	zalisha
germanium	gerimani
giga	giga
give	toa
glance	tupia jicho
glass	glasi
glider	nyiririko
gluon	gluoni
gold	dhahabu
govern	tawala
gradual	-a polepole
gradually	polepole
grain	nafaka
grains	nafaka
gram	gramu
graph	grafu
graphical	-a grafu
grating	kiunzi cha nondo
gravitation	mvutano
gravitational field	uga wa mvutano
gravitational force	kani ya mvutano
gravitation mass	uzito wa graviti
gravitation potential energy	mvutano wa nishati mwendo
graviton	gravitoni
gravity	mvutano
green	kijani
ground state	hali ya chini
grounding	kianzio
gyroscope	giroskopu
<b>H</b>	
Half-life	Nusu uhai
halt	sitisha
hammer	nyundo
handle	mpini
harmonic	linganifu
harmonious	-enye mpangilio
haul	buruta
headlamp	tochi ya kichwa
heat	joto
heat effect	athari ya joto
heat engine	injini ya joto
heat of fusion	kiungo cha joto
heat of vaporization	mvuke wa joto
heat pump	Pampu ya joto



PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
specific heat	joto maalum
heavy	nzito
hecto	hekto
hectometer	hektomita
height	kimo
Heisenberg uncertainty principle	Kanuni isiyo ya hakika ya Heisenberg
helicopter	helikopta
Helium	Heliamu
hence	hivyo
Hertz	Hezi
high temperature source	chanzo cha halijoto ya juu
hiker	mpanda mlima
hilly	-a mlima
hockey	hoki
hollow	shimo
Hooke's law	sheria ya Hook
horizontally	kimlalo
horn	pembe
huge	kubwa
hull	ganda
hydraulic	haidroli
hydraulic system	mfumo wa haidroli
hydrogen	hidrojeni
hydrodynamics	mienendo ya maji
hydrostatics	somo la maji tuli
<b>I</b>	
ideal	kamilifu
ideal gas	gesi kamilifu
ideal gas law	sheria kamilifu ya gesi
ideal mechanical advantage (IMA)	manufaa ya kimakenika kamilifu (IMA)
ignite	washa
ignition	mwako
illuminance	ung'avu
illuminate	angaza
illuminated body	kiwiliwili kichoangazwa
illumination	mwangaza
illusion	mauzauza
image	taswira
imagine	dhani
immerse	zamisha
immersion	kuzamishwa
immersion heater	kchemshio
impart	tawanya
implication	maana
impossible	haiwezekani
impulse	msukumo

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
incandescent	angavu
incandescent lamp	balbu
incident	tukio
Incident pulse	mapigo ya tukio
Incident wave	wimbi la tukio
incision	chanjo
inclined	betuliwa
Inclined plane	bapa la kubetuliwa
incompressible	isiyoeleweka
increase	ongeza
independent variable	kiwango huru
independence	uhuru
Index of refraction	kielezo cha upindo wa wimbi
indicate	ashiria
indication	ishara
individual	binafsi
induction	upitishaji
inductive reactance	mmenyuko wa usakinishaji
inelastic	isionyumbufu
inelastic collision	mgongano usionyumbufu
inertia	inesha
inertial mass	uzito inesha
inexpensive	rahisi
inflate	puza
influence	ushawishi
initial	mwanzo
initial momentum	momenta ya mwanzo
initial velocity	kasimwelekeo ya mwanzo
inner ear	sikio la ndani
input	pembejeo
insect	mdudu
insert	ingiza
instant	papo hapo
instantaneous	-a papo hapo
instantaneous speed	kasi ya papo hapo
instantaneous velocity	kasimwelekeo ya papo hapo
instantaneously	papo hapo
instead	badala ya
instrument	chombo
insulate	kinga
insulator	kihami
intake	kipenyo
integer	namba kamili
integrate	unganisha
integrated circuit	saketi iliyounganishwa
intensity	kiwango
interaction	mwingiliano

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
intercept	kutana
interfere	ingiliana
interference	mwingiliano
intermediate	-a kati
internal	-a ndani
internal energy	nguvu ya ndani
internal force	kani ya ndani
interparticle	baina ya chembe
interpretation	tafsiri
interrupt (to)	ingilia (kwenye)
interstellar	kati ya nyota
interval	muda
interlock	kiungo
invent	vumbua
inverse	kinyume
inverse variation	tofauti pindu
inversely	-a kinyume
invert	pindua
investigate	chunguza
inward	ndani
ion	ioni
iridium	iridi
iron	chuma
irrigate	nyunyiza
isolate	tenga
isolated system	mfumo uliotengwa
isotope	isotopi
<b>J</b>	
jet plane	ndege ya jeti
jeweler	sonara
joule	jouli
Jupiter	Jupita
<b>K</b>	
Kelvin	Kelvini
Kelvin scale	kipimo cha Kelvini
kidney	figo
kilo	kilo
kilogram	kilogramu
kilometer	kilomita
kilopascal	kilopaskali
kilowatt	kilowati
kilowatt hour	saa kwa kilowati
kinematics	kinematika
kinetic energy	nishati mwendo
kinetic molecular theory	nadharia ya molekoyuli mwendo

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
kinetic theory	nadharia ya mwendo
knapsack	shanta
knob	kiwambo
krypton	kriptoni
<b>L</b>	
laboratory	maabara
lack	ukosefu
laser	leza
lattice	kiunzi cha fito
launch	zindua
law	sheria
law of action and reaction	sheria ya kitendo na mjibizo
law of conservation of momentum	sharia ya uhifadhi momenta
lawn	uwanja wa nyasi
lawn mower	mashine ya kukatia nyasi
lead	ongoza
leak	vuja
ledge	shubaka
left-hand rule	kanuni ya mkono wa kushoto
legend	hekaya
length	urefu
lengthen	refusha
lens	lenzi
Lenz's Law	sheria ya lenzi
lepton	leptoni
level	kiwango
lever	wenzo
Leyden Jar	Gudulia la Leyden
liberate	komboa
librarian	mkutubi
lift	inua
light	mwanga
light wave	wimbi la mwanga
likewise	sawasawa
line	mstari
linear	-a mstari
linear accelerator	kichapuzi wima
linear equation	mlinganyo wima
liner	meli ya abiria
lip	lamba
liquefy	yayusha
liquid	kioevu
liter	lita
literally	moja kwa moja
location	eneo
lodestone	sumaku

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
longitudinal	-a longitudo
longitudinal wave	wimbi la longitudo
loudness	ukelele
loudspeaker	kikuza sauti
low	chini
low temperature sink	karo la halijoto ya chini
lubricant	kilainishi
lumen	lumeni
luminous	-a kung'aa
luminous flux	tindikali angavu
luminous intensity	mkazo angavu
lunar	-a mwezi
lunar module	moduli ya mwezi
lung	pafu
<b>M</b>	
magenta	udhurungi
magnet	sumaku
magnetic	-a sumaku
magnetic field	uga wa sumaku
magnetic field line	msari wa uga wa sumaku
magnetic flux	tindikali ya sumaku
magnetic induction	upitishaji wa sumaku
magnetism	usumaku
magnification	ukuzaji
magnify	kuza
magnifying glass	glasi ya kukuzia
magnitude	ukubwa
maintain	dumisha
malleability	kifulika
manner	tabia
manufacture	tengeneza
mass	tungamo
mass defect	hitilafu ya tungamo
mass number	namba ya tungamo
mass spectrograph	spektrografu ya tungamo
massive	kubwa
mathematical science	sayansi ya hisibati
mathematically	kihisabati
mathematician	mwanahisabati
matter	maada
matter wave	wimbi la maada
maximum	-a mwisho kabisa
mean	wastani
measurable	-a kupimika
measurement	kipimo
mechanical advantage	manufaa ya kimakenika

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
mechanical energy	nishati ya kimakenika
mechanical force	kani ya kimakenika
mechanical wave	wimbi la kimakenika
medical	-a tiba
medium	Njia/-a kati
mega	kubwa
megahertz	megahezi
megawatt	megawati
melt	yeyuka
melting point	kiwango cha kuyeyuka
membrane	utando
mercury	zebaki
mercury barometer	baromita ya zebaki
meson	mesoni
metabolism	umetaboli
metal runner	chuma cha utelezo
meteorology	metorolojia
meteoroid	kimondo
methanol	methano
method	mbinu
meticulously	kwa uangalifu sana
metric system	mfumo wa mita
micro	dogo
microfarad	faradi ndogo
microphone	kipaza sauti
microprocessor	kompyuta ndogo
microscope	darubini
microscopic	-a kidarubini
microwave	mikrowevu
middle ear	sikio la kati
Milky Way Galaxy	Galaksi ya Kilimia
milli	mili
milliampere	miliampea
millibar	milibari
milligram	miligramu
milliliter	mililita
millimeter	milimita
mirage	mazigazi
mirror	kioo
mix	changanya
mixed	iliyochanganywa
mixture	mchanganyiko
moderate	-a kati
moderator	msimamizi
modification	badiliko
modify	badili
module	moduli

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
mole	moli
molecule	molekyuli
momenta	nguvu
momentum	momenta
motion	mwendo
mouthpiece	mdakale
mower	mashine ya kukata nyasi
mud	matope
multiple	kadhaa
multiplication	kuzidisha
multiply	zidisha
muon=meson	muoni=mesoni
mutual	-a pande mbili
mutually	kwa pande mbili
muzzle	mdomo
<b>N</b>	
Nano	Nano
nanometer	nanomita
nanosecond	nanosekunde
naphtha	nafta
nasal	-a pua
natural	-a asili
nature of the surface	asili ya uso
nearsightedness	uoni wa karibu
negative	kinyume
negative charge	chaji ya kinyume
neon	neoni
net force	kani kamili
neutral	sio egemea upande wowote
neutrino	nyutrino
neutron	nyutroni
newton	nyutoni
Newton	Nyutoni
Newton's First Law of Motion	Kanuni ya Kwanza ya Nyutoni ya Mwendo
Newton's Second Law of Motion	Kanuni ya Pili ya Nyutoni ya Mwendo
Newton's Third Law of Motion	Kanuni ya Tatu ya Nyutoni ya Mwendo
nickel	nikeli
nitrogen	nitrojeni
nodal	fundo
nodal line	mstari wa fundo
node	fundo
non perpendicular component	kijenzi kisicho na pembe mraba
non perpendicular component of vector	kijenzi kisicho na pembe mraba cha vekta
normal force	kani ya kawaida
north pole	ncha ya kaskazini
North Pole	Ncha ya Kaskazini

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
Northern Hemisphere	Kizio cha Kaskazini
northern light	mwanga wa kaskazini
notation	nukuu
note	dokezo
nuclear	nyuklia
nuclear bombardment	shambulio la nyuklia
nuclear model	Modeli ya nyuklia
nuclear potential energy	nishati tuli ya nyuklia
nuclear reaction	mjibizo wa nyuklia
nuclei	viini
nucleon	kiini
nucleus	kiini
nuclide	nuklidi
numerically	kwa tarakimu
<b>O</b>	
obey	tii
oboe	zumari ndogo
observable	-a kuonekana
observation	kuangalia
observatory	mahali pa kuangalia jua
observe	angalia
obstacle	kizuizi
obtain	pata
occupy	chukua
occur	tokea
octagon	pembenane
octagonal	-a pembenane
octave	sauti nane
Ohm	Ohm
Ohm's Law	Sheria ya Ohm
opaque	-sio penyeka nuru
operation	shughuli
oppose	pinga
optical	-a macho
optical density	uzito wa macho
optics	-a macho
orbit	mzunguko
organ	ogani
orientation	mwelekeo
origin	asili
oscillate	zunguka
oscillation	mzunguko
oscilloscope	mashine ya kupima mzunguko
outer ear	sikio la nje
outlet	njia
output	zao



PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
outward	kwenda nje
oval	duara dufu
overall	jumla
overload	Zidisha mzigo
overlook	puuza
overtones	vidokezo
oxygen	oksijeni
<b>P</b>	
painstakingly	kwa uangalifu
palm	kiganja
parabola	parabola
parabolic	-a parabola
parachute	parachuti
paraffin	mafuta ya taa
parallax	kitanguo
parallel	sambamba
parallel connection	mwunganiko sambamba
parallel force	kani sambamba
particle	chembe
particle accelerator	kichapuzi chembe
Pascal	Pascal
Pascal's Principle	Kanuni ya Pascal
patch	kiraka
path	njia
pavement	njia ya miguu
peculiar	-a pekee
peculiarity	upekee
pendulum	timazi
performer	mchezaji
perimeter	mzingo
period	kipindi
periodic	-a kipindi
permanently	kwa kudumu
perpendicular	-a wima
perpendicular force	kani ya wima
perpendicularly	kwa wima
perspective	twasira
perspiration	kutoa jasho
phase	awamu
phenomena	matukio
phenomenon	tukio
philosopher	mwanafalsafa
phosphor	fosferi
phosphorescence	mmemetuko
photoelectric effect	athari ya umeme-nuru
photoflash	radi ya picha

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
photography	upigaji-picha
photo resistor	kipingamizi cha picha
photovoltaic	kutokeza umeme
photovoltaic cell	betri ya umeme
physical	-a kimwili
physical phenomena	tukio la kimwili
physicist	mwanafizikia
physics	fizikia
Pico	piko
Pico farad	piko faradi
pier	gati
piezoelectricity	umeme wa piezo
pig	nguruwe
pigment	chembe za rangi
pile	rundo
pinna	sikio la nje
pipe	bomba
pistol	bastola
piston	mchi wa mashine
pitch	bereu
pith	kiini
pith ball	mpira wa kiini
plane mirror	kioo bapa
planet	sayari
plasma	plazma
plastic	plastiki
platinum	platinamu
plot	chora
plunge	tumbukiza
polarity	kingamo
polarized	iliyokingamizwa
plane polarized	bapa iliyokingamizwa
polarization	ukingamizaji
polarizer	kingamizo
pole	ncha
pollution	uchafuzi
pound	ratili
portion	sehemu
position	nafasi
positive	chanya
positive charge	chaji chanya
positron	positroni
possess	miliki
postulate	dai
pot	chungu
potential	tuli
potential energy	nishati tuli

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
potentiometer	kipima nishati tuli
pour	mwaga
power	nguvu
practical	yakini
precise	sahihi
precisely	kwa usahihi
precision	usahihi
predict	bashiri
predominate	tawala
prefix	tanguliza
preliminary	-a mwanzo
pressure	shinikizo
presumably	kwa kudhania
prevent	zuia
previous	awali
previously	awali
primary	msingi
primary coil	koili ya msingi
primary color	rangi ya msingi
primary pigment	chembechembe za rangi za msingi
principle	kanuni
principal axis	mhimili mkuu
principal focus	lengo kuu
principal focal point	mwelekeo lengo mkuu
principle of superposition	kanuni ya nafasi kuu
prism	mche
probability	uwezekano
probe	chunguza
procedure	taratibu
process	mchakato
productivity	tija
programmable	-a mpango
prohibit	zuia
project	mradi
projectile	mshale
projectile motion	mwendo wa mshale
propel	zungusha
property	tabia/sifa
proportional	sawa
proportionality	usawa
proportionality constant	usawa usiobadilika
propose	pendekeza
proton	protoni
protractor	kipimapembe
prove	hakiki
proximity	ukaribu
puck	kisahani

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
puddle	kidimbwi
pull-tab	kichupo cha kuvuta
pulley	roda
pulsar	pulsa
pulse	papo
pump	pampu
push	sukuma
putty	puti
Pythagorean	Mwanapaithegorasi
Pythagorean theorem	Kanuni ya Paithegorasi
<b>Q</b>	
quadrangular	-a pembenne
quality	usawa
quantity	idadi
quantize	weka idadi
quantum mechanics	makenika ya kwanta
quantum number	namba ya kwanta
quantum theory	nadharia ya kwanta
quark	kwaki
quark model nucleon	nyukliasi ya modeli ya kwaki
quotient	hisa
<b>R</b>	
raceway, racetrack	mkondo, utambaazi wa mbio
racquet	raketi
radial	-a miali
radially	kwa miali
radiation	mionzi
radiator	rejeta
radio	redio
radio wave	wimbi la redio
radioactive	-a knunurifu
radioactive decay	uozo wa kinunurifu
radioactive material	zana za kinunurifu
rainbow	upinde wa mvua
raise	inua
ramp	mteremko
random	kiholela
range	safu
rank	daraja
ray	mwale
ray optics	nuru ya mwale
razor	wembe
reaction	mjibizo
readily	chapuchapu
real	halisi

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
real image	twasira halisi
realistic	kihalisia
rebound	duta
reciprocal	pande zote
recombine	ungana tena
recognize	tambua
rectangular	-a mstatili
red	nyekundu
redefine	fasili upya
reed	tete
reestablish	imarisha upya
refer	rejea
reference	marejeo
reference point	kiini cha marejeo
reflect	akisi
reflection	uakisi
refraction	upindo wa wimbi
refrigerator	jokofu
regard	jali
region	eneo
register	sajili
regular reflection	uakisi wa kawaida
regulate	dhibiti
reinforce	imarisha
reinforcement	uimarishaji
relate	husiana
relationship	uhusiano
relatively	kiasi
relativity	nadharia ya mwenda wakati na kiasi vinawiana
release	achia
remain	baki
remainder	baki
remove	ondoa
renew	fanya upya
repeat	rudia
repel	fukuza
repetitious	-a marudio
replace	badili
represent	wakilisha
repulsion	kutotongamana
repulsive	-a kutotangamana
research	utafiti
resist	kinza
resistance	ukinzani
resistor	kikinzanishi
resolve	suluhisha
resolving power of lens	kusuluhisha nguvu za lenzi

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
resonance	mwangwi
respective	husika
response	jibu
restatement	tamko jipya
restoring force	kani rejeshi
resultant	tokeo
retain	bakza
retina	retina
reveal	fichua
reverse	pindua
revolve	zunguka
rheostat	rheostati
ribbon	utepe
ridge	mgongo
right angle	pembe mraba
rigid	ngumu
ripple	kiwimbi
ripple tank	tangi la kiwimbi
rise	inuka
rivet	ribiti
robot	roboti
robotics	-a roboti
rocket	roketi
rocking	bembea
roll	bingiria
rope	kamba
rubber ball	mpira
rush	harakisha
<b>S</b>	
sac	kifuko
sack	gunia
sag	mlegeo
sailor	baharia
sap	utomvu
satellite	setelaiti
saxophone	saksafoni
scaffold	jukwaa
scalar	skala
scalar quantity	kipimo cha skala
scale	kipimo
schematic	-a kielelezo
scientific	kisayansi
scientific method	njia ya kisayansi
scientific notation	nukuu ya kisayansi
scintillation	mmeto
scissors	makasi

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
screen	skrini
screw	parafujo
screwdriver	bisibisi
scuba	chombo cha wapiga mbizi
sea level	usawa wa bahari
seal	mhuri
second	pili
secondary	-a pili
secondary coil	koili ya pili
secondary color	rangi ya pili
secondary pigment	chembechembe za rangi ya pili
second left-hand rule	kanuni ya pili ya mkono wa kushoto
second-order line	mstari wa mpangilio wa pili
selenium	seleniamu
self-inductance	kujipitisha enyewe
semiconductor	nusu kipitishi
sensation	hisia
sense	hisi
sensitive	nyeti
separate	tenga
separated	iliyotengwa
series	mfuatano
series connection	muunganiko fuatano
series-parallel circuit	saketi ya mfuatano sambamba
sewing	kushona
sewing needle	sindano ya kushonea
shadow	kivuli
shape	umbo
share	gawio
ship builder	mjenzi meli
shirt	shati
short circuit	saketi fupi
shot-putter	mchezaji mpira wa kurusha
shovel	sepetu
shrink	nywea
sidewalk	kutembea pembeni
sideway	njia ya pembeni
significant	muhimu
significant digit	tarakimu muhimu
silicon	silikoni
silk	hariri
silver	fedha
simple harmonic motion	mwendo muafaka rahisi
simple machine	mashine rahisi
simplify	rahisisha
single-slit diffraction	mkengeuko rahisi
sink	karo

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
sine	saini
sinus	uwazi katika mfupa
sinkable	-a kuzama
siren	King'ora
skating	mchezo wa kuteleza
skydiver	mrukaji hewani
sled	sleji
sliding friction	msugvano wa mtelezo
slightly	kidogo
slit	mwanya
slope	mteremko
smokestack	bomba la moshi
smooth	laini
snap	fyetua
Snell's Law	sheria ya Snell
snowmobile	chombo cha kuteleza kwenye theluji
socket	soketi
sodium	sodiamu
solar	-a jua
solar cell	seli ya jua
solid	yabisi
solid state	hali yabisi
solidity	uyabisi
solution	suluhu
sonar	sona
soot	masizi
soprano	sauti ya kwanza
sound wave	wimbi la sauti
South Pole	Ncha ya Kusini
spacecraft	chomboanga
spark	cheche
specific	mahsusni
specific heat	joto mahsusni
speck	alama
spectrometer	spektromita
spectroscope	spektraskopu
spectrum	spektra
speed	kasi
sphere	tufe
spherical	-a tufe
spherical aberration	hitilafu ya tufe
spider web	utando wa buibui
spill	mwaga
spin	zungusha
spiral	-a mzunguko
split	tawanya
spoiler	mharabu



PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
spontaneously	bila kupangwa
spoon	kijiko
spray	fukiza
spread	tandaza
spring	chipuo
sprinkle	nyunyiza
square	mraba
standard atmospheric pressure	kiwango cha shinikizo la anga
startling	-a kushtusha
state	hali
standing	-a kusimama
standing wave	wimbi la msimamo
static friction	msugvano tuli
static electricity	umeme tuli
statics	utulivu
stationary	isiyosonga
steam	mvuke
stem	shina
step-down transformer	transfoma ya kupunguza volteji
step-up transformer	transfoma ya kuongeza volteji
stick	nata
stiffness	ugumu
still	tulivu
stimulate	sisimua
stimulated emission	utoaji uliosisimuliwa
stitch	sheleli
stone	jiwe
store	weka
straight	-lionyooka
straighten	-lionyoosha
strain	jikaza
straw	mrija
strength	nguvu
stretch	nyosha
strike	piga
string	uzi
strip	vua
strobe	kimulimuli
strobe light	mwanga wa kimulimuli
strobe photography	picha ya kimulimuli
strong nuclear force	kani kubwa ya nyukilia
structure	muundo
subatomic	nusuatomiki
submarine	nyambizi
submerge	zamisha
substance	dutu
substitute	mbadala

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
subtraction	kutoa
succession	mfululizo
suddenly	ghafila
sufficiently	-a kutosha
sulfide	sulfaidi
summarize	fupisha
superposition	pishanisha
supersonic	kasi sana
support	usaidizi
surface	uso
surface tension	mvuto wa uso wa eneo
surface wave	wimbi la eneo
surgery	upasujaji
surplus	ziada
suspect	shuku
suspend	simamisha
Swedish	Kiswidi
sweep	fagia
swing	bembea
swing seat	kiti cha bembea
swirl	zunguka upesiupesi
symbol	alama
symmetrical	linganifu
synchrocyclotron	ulandanishi wa siklotroni
systematic	-a utaratibu
systematic method	mbinu ya utaratibu
<b>T</b>	
table	jedwali
tangent	mstari mguso
tank	tangi
technique	mbinu
technologist	mwanateknolojia
telescope	darubini
temperature	halijoto
temperature scale	kipimo cha halijoto
temporary	muda mfupi
tend	elekea
tendency	mwelekeo
tensile	-a kutanuka
tension	mvuto
terminal velocity	kasi ya mwisho
terrestrial	-a dunia
tesla	tesla
tetrachloride	tetrakloridi
The Law of Conservation of Energy	Sheria ya Uhifadhi wa Nishati
The Law of Conservation of Momentum	Sheria ya Uhifadhi wa Momenta

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
The Law of Reflection	Sheria ya Uakisi
The first law of Thermodynamics	Sheria ya kwanza ya Mabadiliko ya Joto
The second law of Thermodynamics	Sheria ya pili ya Mabadiliko ya Joto
theoretical physicist	mwanafizikia wa kinadharia
theory	nadharia
theory of relativity	nadharia ya uwiano
thermal	-a joto
thermal energy	nishati ya halijoto
thermal equilibrium	msawazo wa halijoto
thermal expansion	upanuzi wa halijoto
thermodynamics	mabadiliko ya joto
thermometer	kipimajoto
thermometry	upimaji joto
thermonuclear	joto la nyuklia
thermonuclear reaction	mjibizo wa joto la nyuklia
thermostat	kisawazishaji joto
thin	embamba
thin film	mkanda mwembamba
thorium	thoriumu
thread	uzi
threshold	kilele
throat	koo
thumb	kidole gumba
tide	wimbi
tighten	kaza
tightly	kwa kukaza
tilt	pindua
timbre	tabia ya sauti
time	muda
tiny	-embamba
tire	tairi
tissue	tishu
tolerate	stahimili
toner	wino
tongue	ulimi
torr	tori
torsion	msokoto
torsion balance	usawa wa msokoto
total internal reflection	jumla ya uakisi wa ndani
tower	mnara
tractor	trekta
train	gari moshi
trajectory	njia
trampoline	turubali
tranquilizer	kitulizo
transducer	kigeuzi nishati
transfer	uhamisho

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
transformer	transfoma
transistor	transista
translucent	-a kupenyeza mwanga
transmission	urushaji
transmit	rusha
transmitted wave	wimbi lililorushwa
transmutation	mgeuko
transparent	angavu
transverse	kingamo
transverse wave	wimbi kingamo
trench	mfereji
triangle	pembetatu
trigger	fyatua
trigonometry	trigonometri
trillion	trilioni
trombone	tromboni
trough	kihori
trumpet	tarumbeta
tuba	tarumbeta kubwa
tube	neli ya majaribio
tune	tuni
tuning fork	chuma cha noti
tungsten	tungsteni
tunnel	handaki
turbulent	-a ghasia
twice	mara mbili
twirl	zungusha
twist	sokota
<b>U</b>	
ultrasonography	utumizi wa mawimbi ya sauti
ultrasound	teknolojia ya mawimbi ya sauti
unaffected	isiyoathirika
unavailability	kutopatikana
unbalance	kutokuwa na urari
unbalance force	kani isiyokuwa na urari
uncertainty	sintofahamu
unchanged	isiobadilika
undergo	pitia
undiminished	isiofifia
uniform	inayofanana/sawia
uniform acceleration	kasi sawia
uniform circular motion	mwendo wa mzunguko sawia
uniformly	ufanano
unit	kizio
units of force	vizio vya kani
universe	ulimwengu

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
unknown	isiojulikana
unsteady	yumbayumba
upright	imara
upward	juu
utensil	chombo
<b>V</b>	
vacuum	ombwe
valid	halali
value	thamani
vapor	mvuke
vapor state	hali ya mvuke
vaporization	uvukizaji
vaporize	fukiza
variable	tofauti
variation	utofauti
variety	tofautitofauti
various	mbalimbali
vector	vekta
vector quantity	kipimo cha vekta
vector resolution	mchanganuo wa vekta
vector sum	jumla ya vekta
vein	mshipa
velocity	kasimwelekeo
verification	uhakiki
vertex	kipeo
vertically	kwa wima
vibrate	tetemeka
vibrational motion	mwendo wa mtetemo
violate	kiuka
virtual	-a mtandaoni
virtual image	twasira mtandao
viscous	ya kunata
viscous liquid	kioevu kinatacho
visible	inayoonekana
visualize	waza
vocal	-a sauti
vocal cord	nyuzi za sauti
volatile	fukivu
volatile liquid	kioevu fukivu
volt	volti
voltaic	-a volti
voltaic cell	seli ya volti
voltage	volteji
voltage divider	kigawanyo cha volteji
voltage drop	mshuko wa volteji
voltmeter	voltimita

PHYSICS GLOSSARY – HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
volume	ujazo
vowel	vokali
<b>W</b>	
water pollution	uchafuzi wa maji
wave speed	kasi ya wimbi
weak force	kani dhaifu
<b>X Y Z</b>	
X-rays	eksirei
X-value	thamani ya X
Xerox	kinakilishi
Y-value	thamani ya Y
yellow	manjano
zinc	zinki