Chp. 1a(p. 2-20): A First Look at Planet Earth
asthenosphere
accretion
condrules
conduction
convection cell
erosion
homogeneous
igneous rocks
metamorphic rocks
nebular cloud
planetary differentiation
scientific theory
scientific hypothesis
sedimentary rocks
solar differentiation
solar wind

Chp. 11: The Earth's Interior
asthenosphere
continental crust
geothermal gradient
inner core
isostasy
lithosphere
lower mantle
mantle
Mohorivicic discontinuity or Moho
oceanic crust
outer core
upper mantle
magnetic field
magnetic reversals
normal polarity
paleomagnetism
oceanic crust
reverse polarity

Chp. 1b(p. 20-37) A First look at Plate Tectonics
continental drift
continental crust
convection cells
convergent plate boundary
divergent plate boundary
mid-ocean ridge
Pangaea
plate tectonics
seafloor spreading
subduction
transform plate boundary

Chp. 12: Plate Tectonics and the Formation of Oceans (Basins)
accretionary wedge
forearc basin
guyots
hot spots
marine magnetic anomaly
mélange
oceanic trenches
ophiolite suite
passive continental margins
rift valley
seamount
volcanic arc

Chp. 13: Plate Tectonics and the Formation of Continents
accreted
*active continental margin
coastal plain
continental platform
continental shelves
continental shields
craton
Gondwana
orogenesis
Pangea
*passive continental margin
Rodinia
terrane
**may require internet*

Chp. 9: Folds, Faults, and Fabrics
anticline
basin
brittle failure
compression
dip
dip-slip fault
elastic deformation
elastic limit or yield point
normal fault
plastic deformation
reverse fault
shearing stress (or shear)
strain
stress
strike
strike-slip or transform faults
syncline
tension
thrust fault

Chp. 10: Earthquakes
aftershock
Benioff-Wadati zone
body waves
dilatancy
epicenter
focus
foreshocks
liquefaction
Mercalli intensity scale
moment-magnitude scale
P waves
Richter scale
S waves
seismic moment
seismograms
seismographs
surface waves
tectonic creep
tsunami

Chp 2: Minerals
atom
atomic mass
atomic number
cleavage
covalent bonding
crystal structure
density
electron
elements
fracture
glass
ion
ionic bonding
isotope
metallic bonding
neutron
octet rule
polymorph
proton
silicates
silicon-oxygen tetrahedron

Chp. 3: Igneous Processes and Igneous Rocks
aphanitic
batholith
Bowen's reaction series
dike
extrusive/volcanic
felsic composition
fractional crystallization
intermediate composition
intrusive/plutonic
lava
mafic composition
magma
partial melting
pegmatite
phaneritic
pluton
porphyritic
sill
ultramafic composition
vesicles
viscosity
volcanic glass
xenolith

Chp. 4: Volcanoes and Volcanism
aa
caldera
cinder or pyroclastic cone
columnar joints
composite cone/stratovolcano
fissures
flood basalts
lahar
lava tubes
pahoehoe
pillow structure
pyroclastic flow or nuee ardente
shield volcano
tephra
vent
volcanic crater
volcanic dome
welded tuff (ignimbrite)

Chp. 5 Weathering: The Breakdown of Rocks
chemical weathering
dissolution
erosion
frost wedging
hydrolysis
mechanical weathering
oxidation
weathering

Chp. 6 Sedimentation and Sedimentary Rocks
bedding/stratification
cementation
chemical sediment
clastic
compaction
cross-beds
detrital sediment
gravel (Table 6-1)
limestone
lithification
mud (Table 6-1)
ripple mark
sand (Table 6-1)
sedimentary facies
sorting

Chp. 7: Metamorphism and Metamorphic Rocks
burial metamorphism
contact metamorphism
directed pressure
dynamothermal metamorphism (or continental collision zone)
fault-zone metamorphism
foliation
hydrothermal metamorphism
lithostatic or confining pressure
metamorphic differentiation
metamorphic grade
metamorphic index minerals
mineral zones (Figs. 7.17, 7.18)
regional metamorphism
rock cleavage
serpentinization (Fig. 7.10)

Chp. 8: Telling Time Geologically
alpha decay
angular unconformity
beta decay
beta or electron capture
Cenozoic
closed system
correlation
daughter isotope
disconformity
half-life
index fossils
Mesozoic
Numerical dating
nonconformity
Paleozoic
parent isotope
Precambrian
principle of cross-cutting relationships
principle of faunal succession
principle of inclusions
principle of original horizontality
principle of superposition
principle of uniformitarianism
relative dating
stromatolite (Fig. 8.33)
unconformity (generic term)

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Chp. 19: Shores and Coastal Processes and Glaciers
beach drift
longshore current
longshore drift
rip currents
tidal bore
wave crest
wave height
wave period
wave refraction
wave trough
wave-cut bench or platform
wavelength

Chp. 17: Glaciers and Ice Ages
alpine glaciers
continental ice sheet
glacial erratic
glacial till
Holocene Epoch
ice ages
moraine
outwash
Pleistocene Epoch
striations

Chp. 15: Streams and Floods
alluvial fan
alluvium
base level
bed load
braided stream
capacity
competence
delta
dissolved load
drainage basin or watershed
drainage divide
floodplain
gradient
levees
meandering stream
stream discharge
stream terrace
suspended load

Chp. 14: Mass Movements
angle of repose
creep
fall
flow
scarp
slide
slump