**Earth/Environmental Science**

**Intro to EES Vocab**

1. Independent variable
2. Dependent variable
3. Control variable
4. Constant
5. Experimental error
6. Mass
7. Volume
8. Length
9. Density
10. Time
11. Temperature
12. Astronomy
13. Lithosphere
14. Hydrosphere
15. Biosphere
16. Atmosphere
17. Geology
18. Oceanography
19. Meteorology
20. Ecology
21. Latitude
22. Longitude
23. Arctic Circle
24. Antarctic Circle
25. Tropic of Cancer
26. Tropic of Capricorn
27. Equator
28. Prime Meridian
29. Cardinal Directions
30. Topography
31. Coal
32. Oil
33. Photosynthesis
34. Natural Gas
35. Fossil Fuels
36. Renewable Energy
37. Ozone
38. Respiration
39. Nitrogen-fixing
40. De-nitrification

**Astronomy Vocab**

1. Radiation
2. Electromagnetic spectrum
3. Visible light
4. Wavelength
5. Frequency
6. Photosynthesis
7. Refracting telescope
8. Reflecting telescope
9. Hubble space telescope
10. Satellite
11. International space station
12. Gravity
13. Revolution
14. Rotation
15. Foucault pendulum
16. Vernal equinox
17. Autumnal equinox
18. Winter solstice
19. Summer solstice
20. Ecliptic plane
21. Nutation
22. Precession
23. Barycenter
24. Center of gravity
25. Oblate spheroid
26. Spring tide
27. Neap tide
28. Nuclear Fusion
29. Nuclear Fission
30. Magnetic Field
31. Auroras
32. Solar Winds
33. Prominence
34. Corona
35. Chromosphere
36. Convection Layer
37. Hydrogen Burning Core
38. Radioactive Layer
39. Hierarchy of the Universe
40. Heliocentric
41. Geocentric
42. Doppler Effect (red shift)
43. Kepler’s Laws
44. Focus (pl. foci) of an ellipse

**Lithosphere Vocab**

*Plate Tectonics Unit*

1. Oceanic Crust
2. Continental Crust
3. Asthenosphere
4. Mantle
5. Outer Core
6. Inner Core
7. Basalt
8. Granite
9. Seismic Waves
10. Convection Currents
11. Geologic Time Scale
12. Alfred Wegner
13. Pangaea
14. Theory of Continental Drift
15. Seafloor Spreading
16. Harry Hess
17. J.Tuzo Wilson
18. Theory of Plate Tectonics
19. Transform Boundary
20. Divergent Boundary
21. Convergent Boundary
22. Subduction Zone
23. Mid-ocean Ridge
24. Rift Valley
25. Deep-ocean Trench
26. Magnetic Reversal
27. Slab Pull
28. Ridge Push
29. Isochron Maps
30. Ring of Fire
31. Marianas Trench/ Aleutian Trench
32. Andes Mountains
33. Himalayan Mountains/ Swiss Alps
34. San Andreas Fault

*Earthquakes Unit*

1. Tension
2. Compression
3. Shearing
4. Magnetometer
5. Sonar
6. Hot Spot
7. Fault Zone
8. Volcanic Island Arc
9. Strain
10. Elastic Strain
11. Plastic/Ductile Deformation
12. Stress
13. Earthquake
14. Normal Fault
15. Reverse Fault
16. Strike-slip Fault
17. Focus
18. Epicenter
19. Primary Waves
20. Secondary Waves
21. Surface Waves
22. Triangulation
23. Hanging Wall
24. Foot Wall
25. Richter Scale

*Volcanoes Unit*

1. Composite/Stratocone Volcano
2. Shield Volcano
3. Cinder Cone Volcano
4. Magma
5. Lava
6. Viscosity
7. Silicia
8. Caldera
9. Dike
10. Sill
11. Batholith
12. Hotsprings
13. Geyser
14. Geothermal Activity
15. Pahoehoe
16. Aa
17. Pyroclastic Material

*Rock Cycle, Erosion, Weathering, Soil Formation*

1. Igneous
2. Extrusive
3. Intrusive
4. Sedimentary
5. Weathering
6. Erosion
7. Deposition
8. Compaction
9. Cementation
10. Lithification
11. Stratification
12. Superposition
13. Mass Movements
14. Foliation
15. Frost Wedging
16. Exfoliation
17. Oxidation
18. Hydrolysis
19. Acid Rain
20. Topography
21. Surface Area
22. Soil Horizons

**Hydrosphere Vocab**

1. Hydrologic Cycle
2. Infiltration
3. Runoff
4. Transpiration
5. Sublimation
6. Porosity
7. Zone of Aeration
8. Water Table
9. Zone of Saturation
10. Permeability
11. Aquifers
12. Aquicludes/Aquitards
13. Wells
14. Drawdown
15. Recharge
16. Cone of Depression
17. Confined Aquifer
18. Spring
19. River Basin
20. Watershed
21. Stream Channel
22. Tributaries
23. Solution
24. Suspension
25. Bed Load
26. Meander
27. Oxbow Lake
28. Alluvial Fan
29. Delta
30. Estuary
31. Wetland
32. Deforestation
33. Agriculture
34. Dead zones
35. Urbanization
36. Carrying Capacity
37. Ground Subsidence
38. Salt Intrusion
39. Point Source Pollution
40. Non-point Source Pollution
41. Salinity
42. Surface Currents
43. Coriolis Effect
44. Upwelling
45. Gyres
46. Specific Heat
47. Land Breeze
48. Sea Breeze

**Atmosphere Vocab**

1. Troposphere
2. Stratosphere
3. Mesosphere
4. Thermosphere
5. Ionosphere
6. Exosphere
7. Ozone Layer
8. Coalescence
9. Condensation
10. Orographic Lifting
11. Heat
12. Latent Heat
13. Conduction
14. Convection
15. Radiation
16. Temperature
17. Pressure
18. Relative Humidity
19. Condensation Nuclei
20. Dew Point
21. Humidity
22. Weather
23. Climate
24. Lifted Condensation Level
25. Air mass (cP, cT, mP, mT)
26. Jet Stream
27. Isobar
28. Doppler Radar
29. Global Wind System
30. Intertropical Convergence Zone
31. Prevailing Westerlies
32. Trade Winds
33. Polar Easterlies
34. Station Model
35. Cold Front
36. Warm Front
37. Occluded Front
38. Stationary Front
39. High Pressure System
40. Low Pressure System
41. Hurricane
42. Tornado
43. Lightning
44. Saffir-Simpson Scale
45. Enhanced Fujita Scale
46. Storm Surge

**Biosphere Vocab**

1. Population
2. Community
3. Ecosystem
4. Biome
5. Abiotic
6. Biotic
7. Koppen Climate Classification
8. Biodiversity
9. Genetic Variation
10. Interdependent
11. Exponential Growth
12. Logistic Growth
13. Carrying Capacity
14. Invasive Species
15. Habitat Fragmentation
16. Overharvesting
17. Acid Rain
18. Eutrophication
19. Ecological Footprint
20. Extinction
21. Ecosystem collapse
22. Food chain
23. Food web
24. Energy Pyramid
25. Limiting Factors
26. Trophic Level
27. Autotroph
28. Heterotroph
29. Herbivore
30. Carnivore
31. Omnivore
32. Scavenger
33. Decomposer
34. Symbiotic Relationship
35. Commensalism
36. Parasitism
37. Desert
38. Tundra
39. Taiga
40. Grassland
41. Temperate Deciduous Forest
42. Tropical Rainforest