APES Vocabulary List 18-19

1 or 10 points Environmentalist – Cover Photo

Economic, Politics, Sustainability, and Environment → 15 Points

2 Natural Resources
2 Natural Capital
4 Globalization
2 Common
5 Tragedy of the Commons
3 Ethics
1 Human Resources
4 Anthropocentrism
1 Anthropogenic
5 Bicentrism
5 Nongovernmental organization – NGO
4 Stewardship
5 Sustainable
5 Cost-Benefit analysis
3 Subsidies
5 External Cost
4 Ecosystem services
5 Environmental Indicators
4 Environmental Laws
5 Environmental Justice
4 Environmental Economics
3 Environmental Literacy
3 Environmental Policy
5 World Bank
4 Ecocentrism
4 Lobbying
4 EPA
4 Affluence
4 Interest Groups

Human Populations Toxicology, and Human Health → 15 Points

5 Zero population growth (ZPG)
4 Exponential growth
3 Birth rate
5 Crude birth rate
5 Crude death rate
4 Replacement level fertility
5 Total fertility rate
3 Baby-boom period
4 Baby-bust period
5 Echo boom
4 Life expectancy
3 Industrial revolution
5 Infant mortality rate
3 Malnourishment
5 Malaria
5 Histogram
4 Demographics
5 Demographer
5 Demographic transition
5 Preindustrial period
5 Transitional stage
5 Industrial stage
5 Post industrial stage
5 Population momentum
2 Family planning
3 Developed country
4 Developing country
5 Gross domestic product (GDP)
5 Gross national product (GNP)
5 Per capita
5 Rule of 70
5 Doubling time
2 Poverty
4 Carrying capacity
2 Immigration
2 Emigration
4 Affluence
1 Urban area
2 Rural area
5 WHO
5 Risk assessment
3 Mutagens
3 Teratogens
3 Carcinogens
5 Toxicology
5 LD50 / LC50
5 Pandemic
5 Endocrine disruptor
5 Synergistic effect
5 Biomagnification

Community and Population Ecology → 20 Points

2 Homeostasis
5 Genes
5 Gene Mutations
1 Inorganic compounds
2 Law of conservation of matter
2 Law of conservation of energy
2 1st law of thermodynamics
3 2nd law of thermodynamics
2 Energy efficiency
2 Ecology
1 Organism
1 Species
1 Population
2 Habitat
2 Community
2 Ecosystem
3 Biosphere
4 Ecotone
1 Abiotic
1 Biotic
3 Zone of tolerance
4 Limiting factor
1 Producers
1 Autotrophs
1 Photosynthesis
2 Chemosynthesis
1 Consumers (primary, secondary, ect.)
1 Heterotrophs
1 Herbivore
1 Carnivore
1 Omnivore
2 Scavengers
1 Detritivores
2 Decomposers
2 Biodiversity
3 Genetic diversity
3 Species diversity
2 Ecological diversity
4 Food chain
1 Trophic level
2 Biomass
4 Pyramid of energy flow
4 Pyramid of biomass

5 Carbon cycle (know steps)
5 Nitrogen cycle (know steps)
5 Phosphorous cycle (know steps)
5 Sulfur cycle (know steps)
5 Evolution
4 Natural selection
3 Adaptation
4 Coevolution
3 Niche
3 Generalist species
4 Specialist species
5 Extinction
3 Native species
4 Nonnative species
4 Exotic species
3 Alien species
4 Indicator species
4 Keystone species
3 Competition
4 Resource partitioning
2 Predation
2 Parasitism
2 Mutualism
2 Commensalisms
3 Population dynamics
1 r-selected species
1 K-selected species
3 Wildlife management
4 Endangered species
3 Threatened species
5 Minimum viable population
5 H.I.P.P.C.O.
3 Habitat fragmentation
3 Habitat loss
5 Poaching
4 Invasive species
5 Zebra mussel
5 Endangered Species Act
5 Over fishing
5 Biomagnifications
5 Bioaccumulation
3 Density Dependent factor
3 Density Independent Factor

Climate and Biomes → 15 Points

1 Weather
2 Climate
5 Upwelling
5 El Nino

5 La Nina
3 Cold Front
3 Warm Front
2 Dew point

4 Rain Shadow Effect
4 Microclimates
5 Latitude
3 Altitude
4 Tropical climate
3 Temperate climate
5 Tropical Desert
5 Temperate Desert
5 Cold Desert
5 Tropical Grassland
5 Savanna
2 Temperate Grassland
5 Arctic Tundra
5 Permafrost
4 Alpine Tundra
3 Chaparral
4 Tropical Rainforest
4 Canopy
2 Understory
1 Forest floor
1 Deciduous Forest
1 Broadleaf Deciduous plants
2 Coniferous Forest
2 Boreal Forest
2 Broadleaf Evergreen plants
3 Taiga
4 Ecological succession
4 Pioneer species
4 Primary succession
4 Secondary succession
4 Climax Community
5 Multiple-Use lands
5 National Forest System
5 Bureau of Land Management (BLM)
5 National Park System (NPS)
4 Old growth forest
4 Clear cutting
4 Selective cutting
5 Strip cutting
5 Prescribed Burn
5 Fire suppression
3 Riparian Zone
5 Buffer-zone concept
5 Restoration Ecology

Water, Water Use and Water Pollution → 15 Points

5 Aquatic Life Zones
5 Salinity
4 Turbidity
5 Nekton
5 Benthos
5 Phytoplankton
5 Zooplankton
4 Euphotic Zone
4 Coastal Zone
5 Continental Shelf
4 Estuary
4 Coastal Wetlands
4 Intertidal zone
5 Coral Reefs
5 Bathyal Zone
5 Abyssal Zone
4 Littoral Zone
4 Limnetic Zone
4 Benthic Zone
5 Thermal stratification
3 Hydrologic Cycle
2 Evaporation
2 Condensation
1 Precipitation
4 Transpiration
4 pH
1 Surface runoff
4 Watershed
5 Groundwater
5 Zone of saturation
5 Natural recharge
5 Water table
4 Aquifers
3 Recharge area
4 Consumptive use
5 Nonconsumptive use
4 Drought
4 Land subsidence.
5 Salt water intrusion
5 Cone of depression
5 Aquifer depletion
3 Wetlands
4 Estuaries
3 Reservoirs
3 Dams/Levee
5 Three Gorges Dam
2 Conservation
4 Desalinization
3 Distillation
3 Reverse osmosis

5 Ogallala Aquifer
3 Drip irrigation
2 Center pivot irrigation
3 Floodplain
1 Erosion
1 Water pollution
2 Coliform bacteria
4 Biological Oxygen Demand (BOD)
1 Point source
3 Nonpoint source
5 Oxygen sag curve
3 Eutrophication
4 Cultural eutrophication
4 Oligotrophication
5 Dissolved oxygen/DO
2 Solubility
2 Turbidity
5 Indicator species
5 Sludge
5 Septic tank
4 Primary Sewage treatment
4 Secondary Sewage treatment
2 Chlorination
4 Effluent
4 Cryptosporidium/Giardia
4 Clean Water Act
5 US Safe Drinking Water Act of 1974
5 Water Quality Act
5 Dead Zone
3 Water conservation
2 Low flow
1 Toilet

Soil, Agriculture, and Food → 15 Points

5 LD50
2 Agriculture
4 Aquaculture
3 Malnourished
2 Overnourished
2 Green revolution
1 Erosion
1 Irrigation
2 Drip irrigation
3 Center pivot irrigation
4 Flood irrigation
5 Salinization
3 Croplands
3 Rangelands
2 Plowing
4 Desertification
5 CAFOs – concentrated animal feeding operations
4 Contour plowing
5 No-till agriculture
4 Cover Crops
1 Insecticides
5 DDT
2 Monocropping
3 Polyculture
4 Intercropping
4 Terrace farming
1 Erosion
1 Weathering
1 Soil
1 Humus
2 Soil horizons
5 Crop rotations
5 Crop yield
5 CSA/Community Supported Ag
4 Food Miles
4 Localvore
3 FDA
3 USDA
4 NRCS
1 Cattle
1 Inorganic fertilizer
2 Organic fertilizer
3 (GMOs) - Genetically Modified Organisms
5 Overfishing
3 Overgrazing
1 Pesticides
5 Pesticide treadmill
5 IPM/Integrated Pest Management
1 Herbicides
5 Monsanto
5 Persistance
2 Soil profile
2 O Horizon
3 A Horizon/Top Soil
5 E Horizon/Zone of Leeching
3 B Horizon/Sub Soil
3 C Horizon/Parent material
4 Infiltration
4 Leaching
2 Clay
3 Silt
1 Sand

1 Gravel
3 Soil texture
3 Loams
2 Nitrogen
2 Phosphorous
4 pH
4 Soil porosity
4 Soil permeability
1 Soil erosion

Geology/Mining, Nonrenewable / Renewable Energy → 15 Points

2 Geology
1 Lithosphere
5 Plate tectonics
5 Divergent plate boundary
5 Convergent plate boundary
5 Transverse plate boundary
5 Subduction zone
3 Uplift
1 Erosion
1 Physical weathering
2 Chemical weathering
1 Mineral
2 Igneous rock
1 Sedimentary rock
3 Metamorphic rock
3 Rock cycle
4 Fault line
5 Earthquake
5 Epicenter
5 Magnitude
5 S waves
5 P waves
3 Mineral resources
3 Ore
5 Surface mining
5 Open-pit mining
5 Area strip mining
5 Smelting
5 Depletion time

3 Law of conservation of matter
3 Law of conservation of energy
3 1st law of thermodynamics
3 2nd law of thermodynamics
4 High quality energy
3 Low quality energy
3 Energy efficiency
1 Petroleum
2 Crude oil
5 Exxon Valdez
5 OPEC
5 Shale oil
5 Tar sands
2 Natural gas
1 Coal
3 Peat
5 Lignite
5 Bituminous coal
5 Anthracite
2 Fossil fuels
4 Greenhouse gasses
5 Fission
5 Fusion
5 Chernobyl
5 Three-mile Island
5 Uranium
4 Half-life
5 Yucca Mountain
5 Nuclear waste
4 Generator
3 Passive solar heating
2 Active solar heating
2 Photovoltaic cells (PV)
4 Wind power
3 Biofuels
5 Geothermal energy
5 Hydroelectric energy
4 NIMBY
2 Kilowatt hour
1 Electricity
1 Power
2 Net metering
4 Incentives
3 Green technologies
2 Energy star
3 Phantom Load

Air – Air Pollution, Climate Change → 15 Points

1 Organic compounds
1 Hydrocarbons
1 Atmosphere
1 Troposphere
3 Stratosphere
5 Stratospheric ozone
4 Tropospheric ozone (photochemical smog)
3 Greenhouse effect
1 Emmisions
3 Carbon cycle
5 Carbon sequestration
5 Nitrogen cycle
5 Sulfur cycle
2 Primary pollutant
3 Secondary pollutant
5 Temperature inversion
5 Acid deposition
5 Radon gas
5 Asbestos
3 Asthma
5 Environmental Protection Agency(EPA)
5 Clean air act 1990
5 Wet scrubber
5 Electrostatic precipitator
4 Greenhouse gasses
3 Global warming (Climate change)
1 Aerosols
5 Kyoto protocol
5 Montreal protocol
3 Chlorofluorocarbons (CFCs)
2 Skin cancer
2 UV light (A, B, C)
2 Carbon monoxide
2 Carbon dioxide
4 SO2
4 NOx
4 Methane
2 Point source
3 Nonpoint source
4 Lead
4 Mercury
5 Mesothelioma
5 Feedback loop
5 Positive feedback loop
5 Negative feedback loop

Waste Management → 15 Points

4 Lead
5 Mercury
2 Biodegradable
2 Nonbiodegradable
2 Waste management
3 Low waste approach
4 Fee-per-bag
5 Bioremediation
5 Phytoremediation
5 Chemoremediation
2 Municipal waste
2 Industrial waste
1 Paper
1 Postconsumer waste
2 Sanitary landfill
3 Leachate
5 Resource Conservation and Recovery Act (RCRA)
5 Comprehensive Environmental and Response, Compensation, and Liability Act
5 Superfund program
5 Love canal
3 Brownfields
3 Anaerobic respiration
3 Methane
4 Incineration
2 Landfill
5 Waste to energy
3 Reduce
2 Reuse
2 Recycle
3 Refuse
1 Plastic
4 Bisphenol A – (BPA)
3 Contamination
3 Hazardous waste
3 E waste