Cards You Should Have

|  |  |
| --- | --- |
| **Laws & Regulatory Bodies & People & Events** | **Vocab & Concepts** |
| ***Nuclear & Chemical Waste****Nuclear Waste Policy Act**CERCLA (superfund)****Climate Change & Air****Kyoto Protocol**Montreal Protocol**Clean Air Act****Species Protection****Lacey Act**Endangered Species Act (ESA)**Fish and Wildlife Act**Marine Mammal Protection Act**Convention of International Trade in Endangered Species Act (CITIES)****Water****Safe Drinking Water Act**Ocean Dumping Ban**Clean Water Act**Ocean Dumping Ban Act****Pollution****National Environmental Policy Act (NEPA)**CERCLA (superfund)*RCRA (cradle to grave)LD50 dose response experiments***Energy****Energy Policy Act****Land Management****Ramsar* | ***Basic Stuff****First Law of Thermodynamics**pH**Second Law of Thermodynamics**Percent change**Photosynthesis & cellular respiration*GIS*Anthropogenic****Natural Selection & Community Ecology****Natural selection**Evidence of evolution**Generalist vs. specialist**Genetic Diversity**Species richness / biodiversity**Phylogenic tree**Artificial selection**Competition**Community**Primary vs secondary succession**Niche**Pioneer species**Ecotones and edge effect**Resource partitioning**Symbiotic relationships**Density-dependent factors**Density-independent factors**K-selected species**R-selected species**Ecosystems, populations, communities**Resistance vs. resilience**Restoration ecology**Resource partitioning**Endemic**Keystone species**Trophic levels (10%rule)**Carrying capacity**Survivorship**Biosphere**Habitat**Phytoremediation and bioremediation**Hierarchy of ecology****Biodiversity****Biodiversity**Biodiversity Hot Spots**Invasive species**Species diversity**Red list*Ecological DiversityEutrophicationProductivityDynamic equilibriumInterspecific vs. intraspecificDead zoneTheory of Equilibrium of Island Biogeography |
| **People***Darwin**Nixon**Rachel Carson**Gifford Pinchot**Thomas Robert Malthus**Aldo Leopold* |
| ***Events****Love Canal**Exxon Valdez**BP oil spill**Chernobyl**3 Mile Island**Fukashima* |
| ***Cycles***Phosphorus cycleHydrologic CycleNitrogen Cycle Sulfur cycleCarbon cycleHomeostasisDenitrifying and nitrogen fixing BacteriaNet Primary Production |
| ***Earth Science*** Atmospheric layers (trophosphere, stratosphere)Geologic timeLithosphere, hydrosphere, biosphere, Plate boundariesSubduction |
| ***Biomes***Tropical rainforestBoreal forestArctic TundraSavannaTropical Dry ForestTemperate ForestTropical RainforestDesertTundra |
| ***Economics****Cost-benefit analysis**Externalities**Tax incentives**Tax credits* |