Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Community:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8th Grade Essential Vocabulary

Cycle 1: Chemistry

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Matter | Ion | Element | Precipitate | Saturated |
| Mass | Isotope | Compound | Catalyst | Solubility |
| Atom | Group | Molecule | Law of Conservation of Mass | Acid |
| Proton | Period | Mixture | Exothermic | Base |
| Neutron | Reactive | Solution | Endothermic | pH |
| Electron | Metal | Chemical Reaction | Solution | Neutral |
| Atomic Number | Non-Metal | Reactant | Solute | Alloy |
| Mass Number | Metalloid | Product | Solvent | Chemical Formula |

Cycle 2: Earth History

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Inner Core | Outer Core | Mantle | Crust | Lithosphere |
| Asthenosphere | Tectonic Plate | Continental Drift | Pangaea | Mid-Ocean Ridge |
| Convection | Convection Current | Plate Tectonics Theory | Divergent Boundary | Convergent Boundary |
| Transform Boundary | Rift Valley | Magnetic Reversal | Hot Spot |  Subduction |
| Fossil | Original Remains | Ice Core | Index Fossil | Absolute Age |
| Half-Life | Uniformitarianism | Geologic Time Scale | Unicellular Organism | Mulitcellular Organism |
| Mass Extinction | Evolution | Natural Selection | Adaptation | Speciation |
| Gene | Classification | Taxonomy | Six Kingdoms | Relative Age |

Cycle 2/3:Microbiology:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Microorganism | Archaea | Disease | Biotechnology (NC28-30) | Chemical Energy |
| Kingdom | Producer | Epidemic | Human Genome Project (NC28-30) | Glucose |
| Binary Fission | Decomposer | Pandemic | DNA (E-74) | Photosynthesis |
| Bacteria | Parasite | Outbreak | Chromosome (E-74) | Chlorophyll |
| Virus | Fungi (online) | Resistance (E4-121) | Base Pair (B33-34) | Cellular Respiration |
| Host Cell | Exercise | Pathogen (NC22-24) | Nutrition | Fermentation |
| Addiction | Eating Disorder  |  |  |  |

Cycle 3: Ecology:

|  |  |  |  |
| --- | --- | --- | --- |
| Population Dynamics | Predation | Photosynthesis | Resource |
| Carrying Capacity | Competition | Decomposer | Renewable Resource |
| Population Density | Limiting Resources | Energy Pyramid | Nonrenewable Resource |
| Abiotic | Symbiotic Relationship | Number Pyramid | Fossil Fuel |
| Biotic | Parasitism | Biomass Pyramid | Solar |
| Density Dependent | Mutualism | Heterotroph | Hydroelectric |
| Density Independent | Commensalism | Herbivores | Nuclear Energy |
|  | Food Chain | Carnivores | Geothermal |
|  | Food Web | Omnivores | Biomass |
|  | Trophic Level | Aututroph | Hydrogen Fuel |

Cycle 4: Hydrology:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Polarity | Estuary | Euphotic | Biotic Resource | Dissolved Oxygen |
| Cohesion | Sediment | Disphotic | Crude Oil | pH |
| Adhesion | Tide | Aphotic | Shipping | Turbidity |
| Surface Tension | Brackish | Plankton | Fishery | Bio-indicators |
| Density | Upwelling | Zooplankton | Ocean Tourism | Water Treatment |
| Specific Heat |  | Phytoplankton | Eutrophication |  |
| Heat of Vaporization |  | Nekton |  |  |
|  |  | Benthos |  |  |