**Ecological Organization (Chap 3-4)** – Levels of organization, energy flow, ecological pyramids, nutrient cycles, human impact, weather & climate, biotic & abiotic, community interactions, symbiosis, succession, biomes, aquatic ecosystems, field trip

**Introduction to Biology** – Scientific Theory, Hypothesis, Cell Theory, Evidence for Evolution, Theory of Evolution, microscope use & parts

**Plants (Chap 22-24)** – Plant diversity, alternation of generations, bryophytes, seedless vascular plants, seed plants, angiosperms, monocots & dicots, plant tissue types, roots, stems, leaves, specialized roots stems and leaves, reproduction of gymnosperms, types of cones, reproduction of angiosperms, parts of a flower, pollination, seeds & seed dispersal, mutualism with animals.

**Ecological Organization (Chap 5-6)** – Population factors, growth factors, graphs, limits to population growth, human population growth patterns, ecological footprint, demographic transition, changes to agriculture, tragedy of commons, sustainable development, use of resources: air, land, water, forest, fisheries,. Biodiversity, major human impacts, ecological footprint, bioaccumulation, conservation