CH I.

Earth science, spheres, systems, scale, resources, environment, hazards, scientific inquiry

Lithosphere, hypothesis, theory, scientific method

CH1.

Physical properties of minerals, mineral resources, chemical composition

Mineral, rock, bonds, isotopes, silicate, silicon-oxygen tetrahedron

CH2.

Rock cycle, rock classification, weathering

Igneous, sedimentary, metamorphic, magma, felsic (silicic), mafic

CH3.

Hydrologic cycle, groundwater

Grand canyon, Mississippi river delta, aquifer

CH4.

Glaciers, ice ages

Ice sheets, till, moraine, glacial erratic, striations

CH5.

Evidence for plate tectonics, plate boundaries, paleomagnetism, what drives plate motions?

Continental drift, lithosphere, asthenosphere, seafloor spreading, hotspots, magnetic stripes, deep sea trenches, subduction

CH6.

Earthquakes, elastic rebound theory, seismic waves, earthquake hazards, Earth’s interior structure, rock deformation, mountain building

Faults, magnitude, intensity, liquefaction, tsunami, crust, mantle, core, mountain belts

CH7.

Volcanic eruptions, basaltic and rhyolite/andesite volcanism, shield volcanoes, composite (strato-) volcanoes, intrusive igneous activity, plate tectonics and igneous activity, volcanic hazards

Viscosity, pyroclastic flows, basalt, rhyolite, fissure (flood) basalts, crater, caldera, plutons

CH8.

Relative dating, absolute dating, correlation, fossils, radiometric dating, geologic time scale

Superposition, horizontality, cross- cutting relationships, unconformity, radioactivity, half-life, Precambrian, Paleozoic, Mesozoic, Cenozoic