

Study Guide - Dynamic Earth System

What is a system?

What are the Earth's major subsystems and what are some of their interactions? Table 1.1, fig 1.1

How much natural stuff do Americans use in their lifetime? Fig 1.3

What is the greenhouse effect? Fig 1.5

How long ago was the Big Bang?

How long ago did the Earth form?

What are the three layers of the Earth called?

What are some differences between the Terrestrial earth-like planets the giant Jovian Gas planets?

What is plate tectonic theory?

What is the rock cycle?

How are the rock cycle and tectonics linked? Fig 1.13

What is Uniformitarianism?

Study Guide- Minerals

Of what are atoms composed?

What are the types of bonds between atoms to form molecules?

What is a Cation? Anion?

Which is bigger?

What are the most common elements in the Earth's crust? Figure 3.11

What are the basic mineral groups? (table 3.1 and 3.3)

What are silicate minerals and why are they important?

What are mafic (ferromagnesian) minerals and felsic (non-ferromagnesian) minerals?

What are the basic oxyanions (radicals) found in minerals?

Mineral Identification: Luster, color, crystal form, cleavage/fracture (why cleavage?), hardness (table 3.2), density, other (taste, reaction to acid, feel...)