

Study Guide for Earth Science Final Exam—200 questions, multiple choice. You may only use the following items on the final:

1. Calculator
2. Earth Science reference tables
3. Layers of earth flip book
4. Planet transparency notes
5. Atmosphere foldable
6. Cloud ID sheet

Ch. 1 Intro to Earth—29 questions

1.5—Be able to give steps in scientific method and define each.

Know difference between observation and measurement

1.1—Know branches of earth science and what is studied in each.

1.2—Know spheres of earth and what is contained in each

1.4—What are systems, why is earth a system, what powers earth as a system

Compare and contrast open and closed systems

1.3—Mapping, be able to read coordinates on a Mercator map, be able to define contour interval and relate it to the slope of a terrain and determine altitude on a topographic map, recognize depressions and common map symbols, read distance from map scale (18 questions on this section alone)

Ch. 2—Chemistry & minerals—43 questions

2.1—Chemistry-- Be able to count p^+ , n , & e^- in an atom from atomic number and mass number

Be able to give the atomic # and mass # from p^+ , n , & e^- in an atom

Identify the 3 types of chemical bonds, give examples and properties of each

Give names and/or formulas for binary ionic compounds

Give names and/or formulas for binary covalent compounds

Compare and contrast ion and isotope and define each.

List 3 phases of matter (s, l, g) and give properties of each

Parts of the atom (p^+ , n , & e^-) and properties and location of each.

Be able to convert metric units

Convert temps from C to K and K to C.

2.2 & 2.3 Minerals— (13 of the 43 questions come from minerals)

Know the definition of a mineral.

Know the groups of minerals and be able to classify minerals into the groups.

Be able to diagram a silicon oxygen tetrahedron

Be able to define the properties of minerals and apply them.

Ch.3 Rocks—34 questions

Know the definition of a rock.