Guide to first Lecture exam.

Questions 1 to 8 are formula writing and naming.

9 and 10 are grids like those in the homework, where you fill in the protons, neutrons, atomic number, etc.

11. Is a conversion within metric units.

12. Three equations to balance. Formulas are given only in the third one

Remaining short answers are finding a formula mass, finding an empirical formula from %,

Finding the % composition from a formula

Finding the actual formula from empirical formula and molar mass

Converting grams to moles.

Converting molecules to moles. (uses 6.02 x 1023)

Moles to grams, and molecules to grams.

2 calculations to the correct number of sig figs. ( one multiplication and one addition)

Finding molar mass from moles and grams.

Nuclear charge

Number of electrons on an ion.

A short stoichiometry problem.

The longer items include a mass mass problem, A balancing followed by grams to moles, a limiting factor problem, and a % yield problem.