

1st control test in Chemistry for BMC I students

October 7, 2024 Monday, 6 p.m.

You are required to go to the assigned lecture hall. No late show up, no early leave (min. 55 min).

What you need: a blue pen (no pencil), a SIMPLE calculator, PICTURE I.D.

What *strictly forbidden is*: any kind of electronic device (mobile phone, tablet, scanner pen, spy pen)

The test will include the topics of the first semester week 1-4 lectures and seminars.

The topic for the second lecture in week 4 is no longer included.

Places of the SCT1: Gr. 1, 2, 3, 4, 5, 6: Life Science Building, Lecture Hall F 015-016

Gr. 7, 8, 9, 10, 11, 12: Learning Center, Lecture Hall 014

Measurements (McMurry pp.39-56). Physical and chemical properties (McMurry pp.72).

Matter: Elements (McMurry pp.68-74). Mixtures and compounds. Chemical formulas. Naming chemical compounds (McMurry pp. 91-102, 163-164)

The atomic theory. Structure of the atom, nuclear arithmetic. Atomic, molecular and molar mass relationships. (McMurry pp.75-88)

Percent composition and empirical/molecular formulas. Chemical equations, stoichiometry (McMurry pp.118-136)

The electromagnetic spectrum. Atomic spectra. The Bohr model of hydrogen atom. The quantum mechanical model of atom (McMurry pp.196-218)

Electron configurations and the periodic table. Classification of the elements. Periodic trends. (McMurry pp.218-228, 243-254)

Summary of general chemistry 1

Textbook: McMurry: Chemistry 8th edition, Global edition