



# Chemistry

## Test A

Name .....

1. If you have to separate water from alcohol you do it by
- ☐ filtration      ☐ evaporating      ☐ distillation      ☐ chromatographie

2. Tick what is correct:

- ☐ Matter is anything that occupies space and has mass.
- ☐ The molecules of ice and water are different.
- ☐ Liquids cannot be compressed.
- ☐ Gases cannot be compressed.
- ☐ The change of the solid state into the liquid state is called sublimation.

3. Tick what is correct:

- ☐ Atoms can be divided by means of chemistry.
- ☐ Substances, that are made up by only one type of atom, are called molecules.
- ☐ C (carbon) is an element.
- ☐ H<sub>2</sub>O (water) is an element.

4. Tick what is correct:

- ☐ Atoms consist of protons, neutrons and electrons.
- ☐ The nucleus is made up by protons and electrons.
- ☐ Protons, neutrons and electrons have all the same mass.
- ☐ The electrical charge of a proton is +1.
- ☐ Mass number minus atomic number = number of protons
- ☐ Two atoms with an equal amount of neutrons and a different amount of protons are called isotopes.
- ☐  $^1_1\text{H}$  and  $^2_1\text{H}$  are two isotopes of hydrogen.

| 5.                    | number of protons | number of neutrons | mass |
|-----------------------|-------------------|--------------------|------|
| $^1_1\text{H}$        |                   |                    |      |
| $^2_1\text{H}$        |                   |                    |      |
| $^4_2\text{He}$       |                   |                    |      |
| $^{19}_9\text{F}$     |                   |                    |      |
| $^{56}_{26}\text{Fe}$ |                   |                    |      |

6. Tick what is correct:

- ☐ Atoms consist of protons, neutrons and electrons.
- ☐ The nucleus is made up by protons and electrons.