



Chemistry

Test B

Name

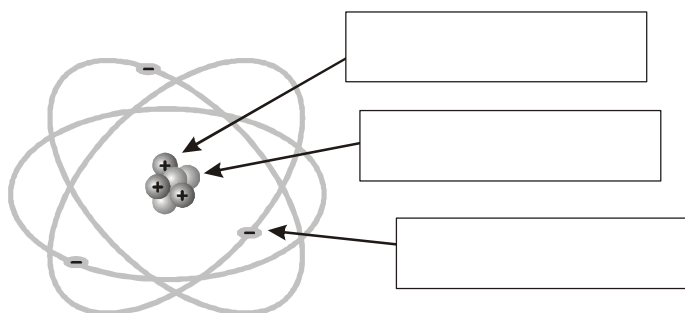
1. Tick what is correct:

- ☐ The molecules of ice, water and water vapour are the same.
- ☐ Liquids can be compressed.
- ☐ The change of the solid state into the gaseous state is called sublimation.

2. Tick what is correct:

- ☐ Atoms cannot be divided by means of chemistry.
- ☐ Substances, that are made up by only one type of atom, are called elements.
- ☐ H (hydrogen) is an element.
- ☐ H₂ is a molecule.

3. Fill in the correct expression



4. Tick what is correct:

- ☐ All atoms want to have full outer shells of electrons. They achieve this by bonding.
- ☐ If one atom loses and another atom gains electrons, it is called *ionic bonding*.
- ☐ If two atoms share some electrons it is called *covalent bonding*.
- ☐ Sodium chloride (NaCl) is an example of *covalent bonding*.
- ☐ The oxygen molecule O₂ is an example of *ionic bonding*.
- ☐ Ionic compounds conduct electricity when dissolved in water.
- ☐ The water molecule H₂O has no polarity.

5. The chemical formula of *limestone* is:

☐ CaCO₃ ☐ CaO ☐ Ca(OH)₂

If limestone is heated you get *quicklime*:

☐ CaCO₃ ☐ CaO ☐ Ca(OH)₂

If quicklime is mixed with water you get *slaked lime*:

☐ CaCO₃ ☐ CaO ☐ Ca(OH)₂

Mortar consists of *slaked lime* mixed with sand

If *mortar* reacts with CO₂, it is transformed into:

☐ CaCO₃ ☐ CaO ☐ Ca(OH)₂

6. In the *Periodic Table* the elements are arranged in order of increasing atomic mass. Each vertical column in the periodic table is called a Elements of the same group have the same number of in their outermost shells and therefore similar Each row of elements in the table is called a

Fill in the missing words: *period* *group* *chemical properties* *electrons*