

1. What process happens when a gas is being changed to a solid?

- a) Sublimation
- b) Condensation
- c) **Deposition** ✓
- d) Evaporation

2. Which type of matter have a fixed volume but no fixed shape?

- a) Gas
- b) **Liquid** ✓
- c) Solid
- d) None of the above

3. What are the types of charges in the nucleus of an atom? (2 correct answer)

- a) **Proton** ✓
- b) Orbit
- c) Electron
- d) **Neutron** ✓

4. What are isotopes atoms?

- a) **Isotopes are atoms of the same element that have the same number of protons but different numbers of neutrons.** ✓

Isotopes are atoms that have the same

- c) element with different protons and neutrons.

- b) **Isotopes are atoms of the same element that have the different number of protons but same numbers of neutrons.**

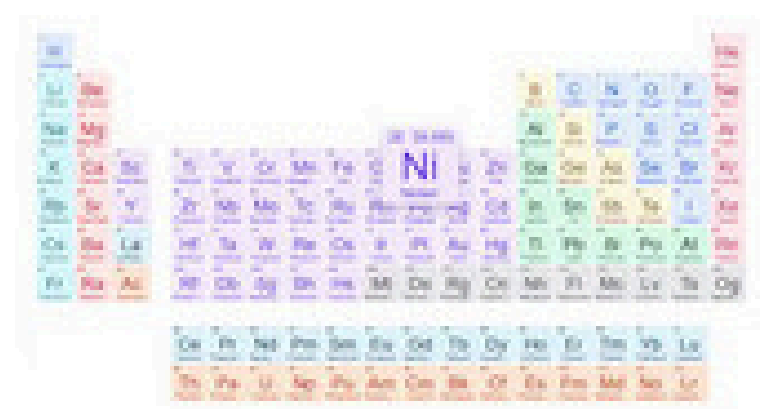
- d) **Isotopes are atoms that have the same element with same amounts protons and neutrons.**

5. What is the atomic number?

- a) Proton + neutron
- b) Proton + electron
- c) Electron only
- d) **Proton only** ✓

6.

What is the period and group of Nickel?



A periodic table of elements with Nickel (Ni) highlighted in the 4th period, 10th group. The table is color-coded by groups: Group 1 (blue), Group 2 (orange), Groups 3-10 (purple), Groups 11-18 (green), and the f-block (pink).

a) Period 5, Group 10

b) Period 4, Group 10 ✓

c) Period 10, Group 5

d) Period 5, Group 5

7. What are molecules?

a) Groups of two or more atoms. ✓

The basic building blocks of matter

b) that can't be broken down into simpler blocks.

c) A group of two or more molecules.

d) Charges in an atom.

8. Which of the statement below is correct?

a) If an atom loses electrons, it becomes a anion

b) If an atom gains electrons, it becomes a cation

c) If an atom loses electrons, it becomes a cation ✓

d) If an atom gains electrons, it becomes a positive charge

9. What is a colloid?

a) Colloid are substances made when two or more different elements chemically combine in fixed proportions.

b) Colloid is a type of mixture where one substance dissolves completely in another substance.

c) A colloid is a type of mixture where larger particles are spread throughout a liquid or gas but are not dissolved.

d) A colloid is a mixture where tiny particles of one substance are spread evenly throughout another, but the particles do not settle out. ✓

10. What is a group?

a) A group is a vertical column of elements ✓

b) A group contains the number of protons and neutrons

c) A group is a horizontal row of elements

d) A group contains the number of electrons

11.

What is a chemical reaction?

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12. What is a physical reaction?

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**A chemical reaction is a process in which substances change into new substances with different properties.**

**A physical reaction is a change in a substance that does not alter its chemical composition.**