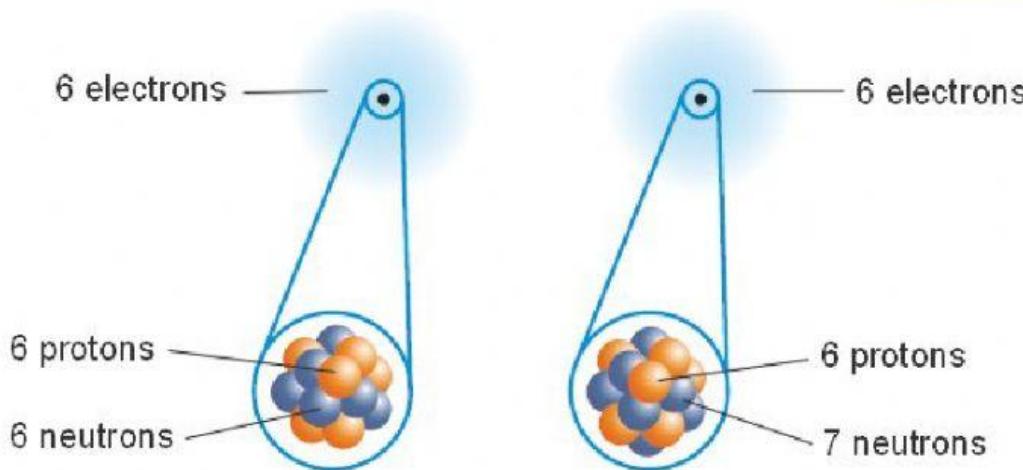


Online Quiz**The Structure of Atoms**

1. What is shown here?

[Need a Hint?](#)



- A. two different ions
- B. two different elements
- C. two different isotopes
- D. two different compounds

2. Two atoms of *the same element* can differ in which of the following?

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- A. the number of protons, neutrons, or electrons
- B. only in the number of protons or electrons
- C. only in the number of protons or neutrons
- D. only in the number of neutrons or electrons

3. What is true of all neutral atoms?

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- A. they have equal numbers of neutrons and electrons
- B. they have equal numbers of protons and neutrons
- C. they have equal numbers of protons and electrons
- D. they have equal numbers of protons, neutrons and electrons

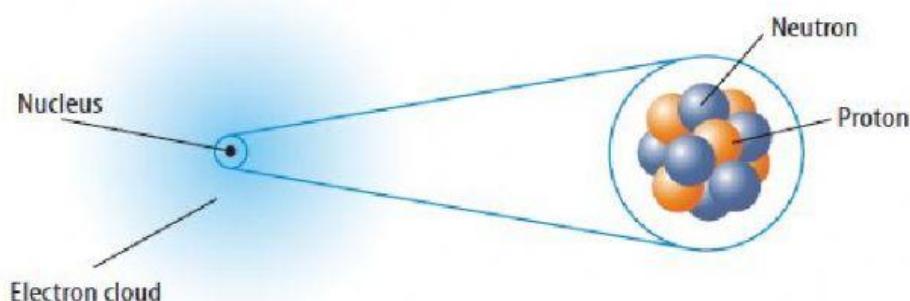
4. A calcium ion has 20 neutrons, 20 protons, and 18 electrons. What is the ion's charge?

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- A. 2^+
- B. 1^+
- C. 1^-
- D. 2^-

5. Why is the area around the nucleus called the electron cloud?

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- A. because it contains a dense cloud of many electrons
- B. because the electrons are constantly moving
- C. because scientists do not know how many electrons an atom has
- D. because electrons are large and diffuse particles

STOP This is the end of the test. When you have completed all the questions and reviewed your answers, press the button below to grade the test.

[Grade the Test](#)

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