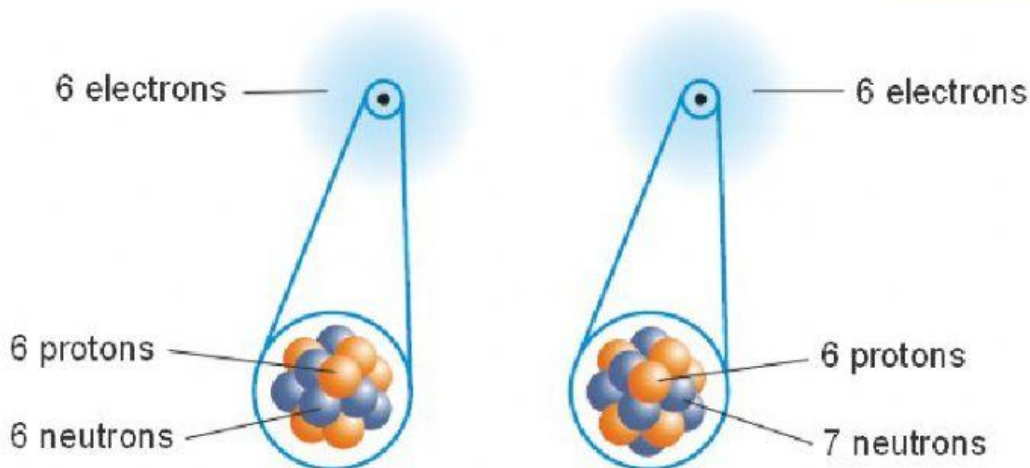


Online Quiz

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?

[Need a Hint?](#)

- 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

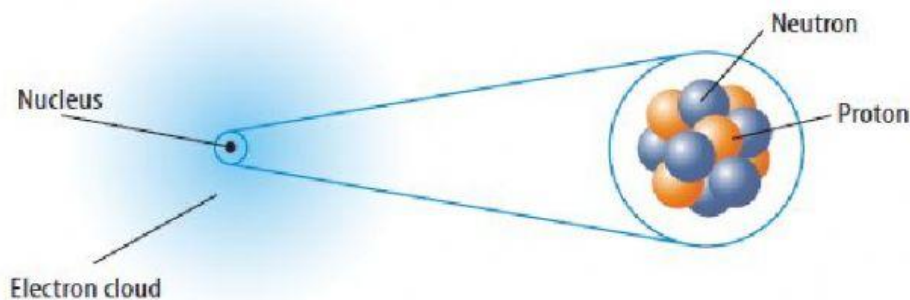
4. A calcium ion has 20 neutrons, 20 protons, and 18 electrons. What is the ion's charge?

[Need a Hint?](#)

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

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

[Need a Hint?](#)



- 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
-



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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