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# Mastering Biology ch 2,3,4,5 study aid

Ch

2 - answer

A substance that cannot be broken down into other substances by ordinary chemical procedures is a(n) \_\_\_\_\_. - answer element

Which of the following is a trace element required by most living organisms? - answer magnesium

The innermost electron shell of an atom can hold up to \_\_\_\_\_ electrons. - answer 2

Which of these relationships is true of an uncharged atom? - answer The number of protons is equal to the number of electrons

What determines the types of chemical reactions that an atom participates in? - answer The number of electrons in the outermost electron shell

What is the atomic number of an atom that has 6 protons, 6 neutrons, and 6 electrons? - answer 6

Which of these refers to atoms with the same atomic number but different atomic masses? - answer These atoms are isotopes

Fluorine's atomic number is 9 and its atomic mass is 19. How many neutrons does fluorine have? - answer 10

An uncharged atom of boron has an atomic number of 5 and an atomic mass of 11. How many protons does boron have? - answer 5

What is the mass number of an ion with 107 electrons, 157 neutrons, and a +1 charge? - answer 265

Which of the following subatomic particles always has a positive charge? - answer proton

Changing the number of \_\_\_\_\_ would change an atom into an atom of a different element - answer protons in an atom

# Answers For Mastering Biology Ch 5

**Ying-Ying Zheng**



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