Name	Data .	
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Basic Atomic Structure Worksheet

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1	The central part of the atom is called the
2	Electrons are found the nucleus.
3	The nucleus has a charge and contains and
	·
4	The and the have the same mass.
(5)	Give the charge of each:
	Proton Neutron Electron
6	Order from the lightest to heaviest: Protons, Electrons, Nucleus,
	Neutrons
7	The of an element is the average mass of an
	element's naturally occurring atoms, or isotopes, taking into
	account the of each isotope.
8	The of an element is the total number of protons and neutrons in the of the atom.
9	The mass number is used to calculate the number of
	in one atom of an element. In order to calculate the number of
	neutrons you must subtract the from the
	·
10	Answer the following questions about the ²⁰ Ne ₁₀ atom:
	(a) No. of protons (b) No. of neutrons
	© No. of electrons @ Mass number
	e Atomic number f No. of valence electrons

Name :	Date :	
	Basic Atomic Structure Worksheet Answers	
1	The central part of the atom is called the <u>nucleus</u>	
2	Electrons are found <u>outside</u> the nucleus.	
3	The nucleus has a <u>positive</u> charge and contains <u>protons</u> and <u>neutrons</u> .	
4	The <u>proton</u> and the <u>neutron</u> have the same mass.	
(5)	Give the charge of each:	
	Proton <u>+1</u> Neutron <u>0</u> Electron <u>-1</u>	
6	Order from the lightest to heaviest: Protons, Electrons, Nucleus, Neutrons	
	Electrons < Proton < Neutron < Nucleus	
7	The <u>atomic mass</u> of an element is the average mass of an element's naturally occurring atoms, or isotopes, taking into account the <u>mass</u> of each isotope.	
8	The <u>mass number</u> of an element is the total number of protons and neutrons in the <u>nucleus</u> of the atom.	
9	The mass number is used to calculate the number of neutrons in one atom of an element. In order to calculate the number of neutrons you must subtract the atomic number from the mass number .	
10	Answer the following questions about the ²⁰ Ne ₁₀ atom:	
	(a) No. of protons10_ (b) No. of neutrons10_	
	© No. of electrons <u>10</u> @ Mass number <u>20</u>	

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e Atomic number 10 f No. of valence electrons 0