



## WEEKLY HOME STUDY PACKAGE - WEEK 1 (05/07/21 – 09/07/21)

<b>Subject</b>	<b>BASIC SCIENCE</b>	<b>Year/Level</b>	<b>9</b>
<b>Strand</b>	2 – MATTER		
<b>Sub-strand</b>	2.1 – INVESTIGATING MATTER		
<b>Content Learning Outcome</b>	Describe the structure and properties of matter using particle model of atoms and molecules and account for the behavior of matter when heat is added or removed.		

### Activity Solutions

1. For the following elements write the name of the symbol, atomic number, mass number, number of proton, electron, and neutrons. **(9 marks)**



	<b>Na</b>	<b>He</b>	<b>F</b>
<b>Name</b>	Sodium	Helium	Fluorine
<b>Atomic number</b>	11	2	9
<b>Mass number</b>	23	4	19
<b>Proton</b>	11	2	9
<b>Neutron</b>	$23 - 11 = 12$	$4 - 2 = 2$	$19 - 9 = 10$
<b>Electron</b>	11	2	9

2. Make at least seven sentences by choosing an entry from each column. **(7 marks)**

All An The A	atom matter electron shell electron atomic nucleus neutron	is is not	not found composed of made up of	a many protons in orbiting electrons two kinds of	and charged in a/an the small electrons	atom (s) nucleus particle (s) neutron (s) Orbit
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- (i) All matter is made up of many small atoms.  
(ii) An electron is found orbiting the nucleus.  
(iii) A neutron is found in the nucleus.  
(iv) The nucleus is made up of two kinds of charged particles.  
(v) The electron is not found in the nucleus.  
(vi) The nucleus is made up of protons and neutrons.  
(vii) The atomic is not composed of many charged particles.

**THE END**