Name:	Block: Date: Cheminink
To understand matter it is important to	form pictures in your mind of what is happening on the
Element: a substance made up of only_	
What is happening inside the copper pe	enny (hint: how are the atoms moving)?
Pure Substance: the smallest individua	I particles (atoms) are the same/different
Molecule: or more atoms are	chemically/physically joined together
A water molecule hashydro	gen atoms andoxygen atoms.
The chemical formula for water is :	
Subscripts in a chemical formula tell us	S
	ol = that there are none/is one of the atom present.
A <b>compound</b> is: How do liquid molecules move:	
What is written after the formula for v	water to represent that it is a liquid?
	Write the formula for nitrogen
Draw a nitrogen molecule:	
	How many atoms of nitrogen are present in a nitrogen molcule:
Draw the CO₂ molecule:	What elements are present in the CO <sub>2</sub> molecule? and
	How many oxygen atoms are present in CO <sub>2</sub> molecule?
Draw oxygen molecule:	
	Oxygen is an example of abecause there is more than
	one atom bonded
What is written after the formula for	nitrogen, carbon dioxide, and oxygen to represent that they are gases?
How do gas molecules move:	
Mixture is:	
Mixture 13.	
How can you tell the molecules are n	ot chemically bonded?
	nitrogen, carbon dioxide, and oxygen:
Summary:	
	and they move by
	solid are arranged and they move by
	Indication of a solid is done so by adding
2. Atoms or molecules of a	liquid have Indication of
a liquid is done so by add	
3. Atoms or molecules of a	gas move and they are
	Indication of a gas is done so by adding
<del></del>	
Now you try: What is the formula fo	or: a solid water molecule,a liquid bromine (Br <sub>2</sub> ) molecule
, and a gas	seous carbon dioxide molecule
Draw the picture of:	
Copper (Cu) Oxyger	water (H <sub>2</sub> O) carbon dioxide

Draw the picture of:	
Mixture of carbon dioxide & argon	
	The formulas for this mixture are:
Pure substance & an element mi	xture of an element & a compound
To describe how many atoms or molecules are present,	place a in front of the chemical formula.
Now you try it: Using coefficients, describe how many o	f the atoms and molecules are present in each box below
He CO	F <sub>2</sub>
	h element and compound are present in below image. Include
coefficients.	in clement and compound are present in below image. Include
+	
<b>Now</b> "try the questions". Complete the Question Set successfully, you will need to answer 10 questions corre	for the Particulate Nature of Matter. This is graded. Finish questions ctly before missing 3 questions! Follow the directions. Read carefully,
Note: If you have to redo the question set more than 3 t	imes, you need to:
<ul> <li>Read the notes you have taken           <ul> <li>redo</li> </ul> </li> </ul>	the tutorial •see your teacher for help
Conclusion Questions: The three states of matter	
Describe the movement of solids	
liquids	
gases	
2. Identify the letters used to indicate the 3 states of ma	
3. In each of the following formulas, underline the coeff	
3 Al(OH) <sub>3</sub> 4 NaCl NC	·
,,,,	03(* - 4/2
Use your ChemThink notes or textbook to summarize the	e definition of each of the following:
4. Element:	
5. Molecule:	
6. Compound:	
7. Pure Substance:	
8. Mixture:	
10.Coefficient:	