C1 – Chemistry Fundamentals Core Questions

	Question	Answer
1	What is a particle?	An incredibly tiny object
2	What is an atom?	A particle made of protons, neutrons and electrons
4	What are the three subatomic particles?	Protons, neutrons and electrons
5	How are the subatomic particles arranged in	Protons and neutrons in a nucleus,
	an atom?	electrons travel around the nucleus in
		shells
6	What is the charge of a neutron?	Neutral / 0 / No charge
7	Where in an atom would you find neutrons?	The nucleus
8	Which particle orbits the nucleus of an atom?	Electrons/ e-
9	What is the charge of a proton?	Positive/ +/ +1
10	How can atoms be different to each other?	In the number of protons, neutrons and
		electrons they have
11	What is a chemical bond?	A strong connection between two atoms
12	What is an element?	All substances are made of elements. They
10		are made up of one type of atom
13	What is a compound?	A substance made of atoms of different
1.4	What is a mixture?	elements chemically bonded together
14	what is a mixture?	Different objects together but not
15	Is air and example of an element, a	chemically bonded A mixture
13	compound, or a mixture?	ATTIXIOLE
16	What is a molecule?	Two to thousands of atoms joined together
17	What is a molecular substance?	A substance made of lots molecules which
17	What is a molecular substance:	are not bonded to each other
18	What is a giant substance?	A substance made of billions of atoms chemically bonded together
19	Name five molecular substances	Hydrogen, oxygen, water, carbon dioxide and methane
20	What is a chemical formula?	A combination of symbols and small numbers which tells you which atoms are in a substance
21	What do the small numbers in a chemical formula represent?	The number of a certain element in a substance
22	What is the correct chemical formula for Carbon Dioxide?	CO ₂
23	What is the correct chemical formula for Water?	H ₂ O
24	What are reactants?	The substances which you start with in a chemical reaction
25	What are products?	The substances which you end up with in a chemical reaction
26	What is a property?	The way something behaves, e.g. colour, magnetic
27	How are the properties of a compound dependent on the properties of the elements which make them up?	They are not related at all
28	What is the law of conservation of mass?	Atoms are not created or destroyed in a chemical reaction, they are just rearranged.

29	What is a balanced equation?	A symbol equation where all the reactant atoms have become product atoms
30	What is the name of the process of turning a solid into a liquid?	Melting
31	What is the name of the process of turning a gas into a liquid?	Condensing
32	What is the name of the process of turning a liquid into a solid?	Freezing
33	What is the name of the change of state from a liquid to a gas?	Evaporation
34	Is air and example of an element, a compound, or a mixture?	A mixture