OBHS Core Questions:

Subject: Science

Year and Term: Year 9 Autumn Term



Topic: C1 Periodic Table and Elements

Learn these questions to build a strong foundation of knowledge for this half-term. Ask family or friends to test you regularly, or practise on your own using the 'Look, Say, Cover, Write' method.

Question			Answer
1.	. What is the name given to the		Atom
	smallest part of an element that can		
	exist?		
2.	2. What name is given to two or more		Compound
	elements chemically combine	d in	
	fixed proportions?		
3.	3. What name is given to two or more		Mixture
	elements or compounds not		
	chemically combined?		
4.	4. What are filtration, crystallisation,		Separating mixtures
	simple distillation, fractional		
	distillation and chromatograph	ny all	
	used for?		
5.	. What name is given to an early but		Plum Pudding Model
	incorrect model of the atom th		
	suggested atoms are a ball of p		
	charge with negative electrons		
<u> </u>	embedded in them?		Neutropa in the stam
6.			Neutrons in the atom
7	provide evidence for the existence of?		Negative
	. What is the charge of an electron?		Neutral
8.	8		Proton
	9. What is the charge of a proton?10. What is the mass of a proton?		1
	11. What is the mass of an electron?		1/1863 or very small
	12. What is the mass of a neutron?		1
13. What is the mass number of an			The protons and neutrons in an atom
element the sum of?			
14	. Sodium is shown below.	23	P = 11
	How many protons,	Na	E = 11
	electrons and neutrons	sodium	N = 12
	does it have?	11	
15	. Oxygen is shown below. How	16	P = 8
	many protons, electrons and	0	E = 8
	neutrons does it have?	oxygen 8	N = 8

16. What is the name of atoms of the same element that have different numbers of neutrons?	Isotopes
17. What are elements in the periodic table arranged in order of?	Atomic number
18. What do elements in the same group of the periodic table have in common?	The same number of electrons in the outer shell and similar properties
19. How did Mendeleev overcome problems with ordering the elements?	He left gaps for undiscovered elements
20. The elements of which group of the periodic table are unreactive (inert) and do not easily form molecules?	Group 0 (Noble gases)
21. Which group of the periodic table is known as the halogens?	Group 7
22. Which group of the periodic table is known as the alkali metals?	Group 1
23. Does reactivity increase or decrease going down group 1?	Increase
24. Does reactivity increase or decrease going down group 7?	Decrease
25. What are the rows across the periodic table called?	Periods