

## Structure and Bonding Chemistry (Quick Questions)

1. What is the mass of a proton?
2. What is the mass of a neutron?
3. What is the mass of an electron?
4. What type of bonding occurs between a metal and non-metal?
5. What type of bonding occurs between a metal and a metal?
6. What is an ion?
7. How many electrons do elements in group 1 of the periodic table have in their outer shell?
8. How many electrons do elements in group 7 of the periodic table have in their outer shell?
9. What are atoms of an element trying to do when forming chemical bonds?
10. Which of these formulae belong to an ion: Fe, Na, Na <sup>+</sup> ?
11. What is the formula for magnesium chloride?
12. True or false, metal ions form positive ion by losing electrons?
13. True or false, oppositely charged ions repel each other in ionic bonding?
14. Which atoms (metal or non-metal) gain electrons to form negative ions?
15. How many electrons are involved in each covalent bond?
16. What does a covalent bond involved?
17. Where do electrons in a covalent bond come from?
18. Nitrogen is in group 5 of the periodic table, how many covalent bonds can it form?

## Structure and Bonding Chemistry (Quick Answers)

1.	1
2.	1
3.	Very very small so we think of it as 0
4.	Ionic bonding
5.	Covalent bonding
6.	Ions are electrically charged particles formed when atoms lose or gain electrons.
7.	1
8.	7
9.	Make sure their outer shell is full of electrons.
10.	Na <sup>+</sup>
11.	MgCl <sub>2</sub>
12.	True.
13.	False.
14.	Non-metal atoms
15.	1
16.	Sharing electrons between atoms
17.	The outer shell (or highest occupied energy level)
18.	3