YEAR 10 CHEMISTRY REVISION CHECKLIST. Summer Examination.

As you begin your revision, complete this honestly to help you see where your priorities should lie for your revision. The target is eventually to get all your ticks in the left hand column. Remember **this is not a definitive list** – use all your notes for revision.

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ATOMIC STRUCTURE		
Describe the structure of an atom as a central nucleus containing		
protons and neutrons surrounded by orbiting electrons in shells		
State the relative charges and relative masses of protons,		
neutrons and electrons		
Define atomic number as the number of protons in the nucleus of		
an atom		
Define mass number as the total number of protons and neutrons in an atom		
Know that an ion is an atom that has lost or gained electrons		
write and draw the electronic structure of atoms and ion		
deduce the number of protons, neutrons and electron present in		
an atom or ion and to determine the charge on an ion or determine		
the number of subatomic particles given the charge		
Understand that the atom as a whole has no electrical charge		
because the number of protons in equal to the number of electrons		
Define isotopes as atoms of an element with the same atomic		
number but a different mass number, indicating a different		
number of neutrons		
BONDING		
Define the terms cation and anion		
Use dot and cross diagrams to show how ions are formed and how		
ionic bonding takes place in simple ionic compounds		
Understand that ionic bonding involves attraction between		
oppositely charged ions, that ionic bonds are strong and that		
substantial energy is required to break ionic bonds		
Recognise that ionic bonding is typical of metal compounds		
Describe a single covalent bond as a shared pair of electrons		
Show using dot and cross diagrams how covalent bonding occurs in H_2 , Cl_2 , HCl , H_2O , CH_4		