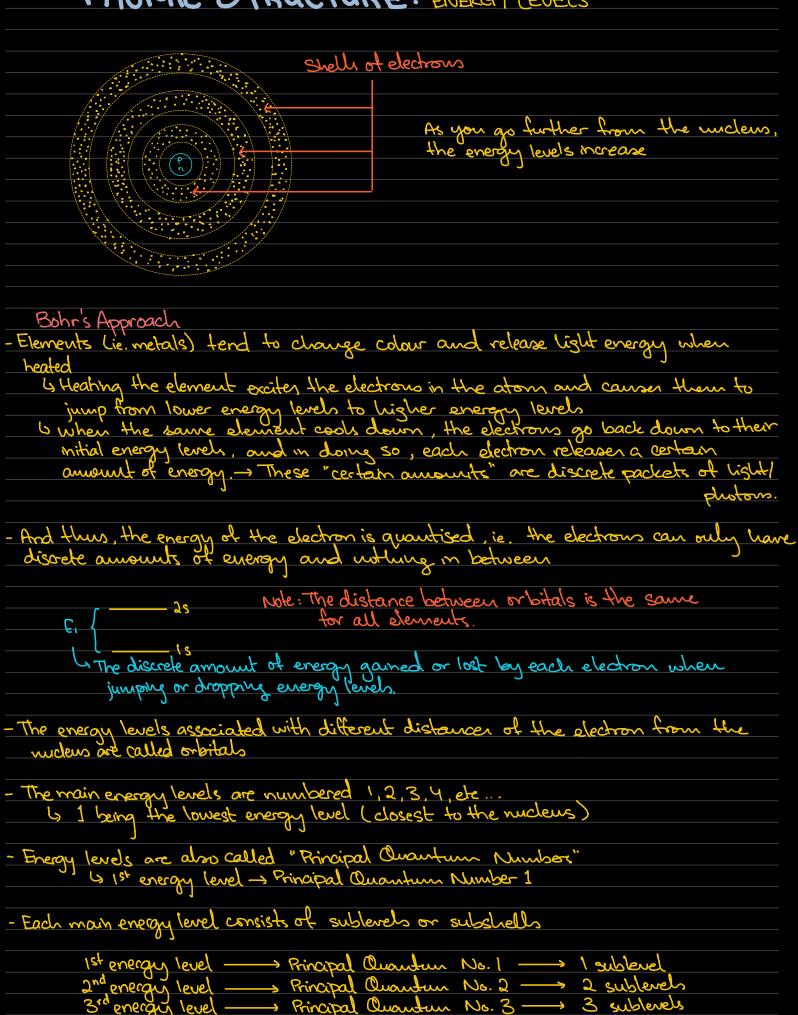
PHOMIC STRUCTURE: ENERGY LEVELS



. The sublevels/	As Not in syllabus
The sublevels/	
	subshells are labelled s, p,d,f,g,h
4 They origin	irate from the "atomic spectra" of alkalimetals
→ Scientists	s saw a series of lines, and gave them names. rp, p-principal, d-> diffuse, f-> fundamental etc
$s \rightarrow shar$	p, p→principal, d → diffuse, f → fundamental ete
Fromus Lovel	No. of Subshells Name + Number of subshell(s)
1	1 1s
2	2 28 and 2p
3	3 3s, 3p, and 3d
Ч	4 45, 4p, 4d, and 4f
Fools subshall c	consists of one or more orbitals
cach subshi	ell contains an odd number of orbitals in which electrons are placed
Type of sublevel	No. of orbitals
S	1
Ŗ	<u>ς</u>
4	7
•	
The total number quantum num	s of orbitals in a shell (Energy Level) = n^2 where n is the principal aber
Considerine ene	eral levels and orbitals together
\	390 (0.00) 00000 0 0 1000 0 (0.00)
J	ergy levels and orbitals together
<u> </u>	
	3d, Not everything is perfectly in order, because at
	——— 3d Not everything is perfectly in order, because at 1 ap further distances from the nucleus, there's som
	——— 3d Not everything is perfectly in order, because at 1 ap further distances from the nucleus, there's som
- 4s - 3s - 2s	——— 3d Not everything is perfectly in order, because at 1 ap further distances from the nucleus, there's som
- 4s - 3s	——— 3d Not everything is perfectly in order, because at 1 ap further distances from the nucleus, there's som
- 4s - 3s - 2s	——— 3d Not everything is perfectly in order, because at 1 ap further distances from the nucleus, there's som
- 4s - 3s - 2s - 1s	——— 3d Not everything is perfectly in order, because at 1 ap further distances from the nucleus, there's som
- 4s - 3s - 2s - 1s	——— 3d Not everything is perfectly in order, because at 1 ap further distances from the nucleus, there's som
- 4s - 3s - 2s - 1s	——— 3d Not everything is perfectly in order, because at 1 ap further distances from the nucleus, there's som
- 4s - 3s - 2s - 1s	——— 3d Not everything is perfectly in order, because at 1 ap further distances from the nucleus, there's som
- 4s - 3s - 2s - 1s	——— 3d Not everything is perfectly in order, because at 1 ap further distances from the nucleus, there's som
- 4s - 3s - 2s - 1s	——— 3d Not everything is perfectly in order, because at 1 ap further distances from the nucleus, there's som
- 4s - 3s - 2s - 1s	——— 3d Not everything is perfectly in order, because at 1 ap further distances from the nucleus, there's som
- 4s - 3s - 2s - 1s	——— 3d Not everything is perfectly in order, because at 1 ap further distances from the nucleus, there's som