9/17/2018	Chemic	al formulas +	Molecula	Models					
11.170		O, M. C.	710 000						
	Chemical formula: indicates # atoms of each element.								
	en: (HOYOH) ~> H()								
	ex: (HOOH) ~> H2O2  ex: (HOO) H ~> H2O2  subscript #  element symbol								
	CHOOP ~ HO								
	HOH ~ H20 omit # 1 in general.								
					0				
	· Molecular formulas ~ shows count of #atoms in molecula · Empirical formulas ~ shows simplest whole # ratios Molecular formula Empirical formula								
	ex:	H <sub>2</sub> O <sub>2</sub>	32	НО	(= qN0	test common			
		2:2			(= great	or, 2)			
, v									
	ex:	C3H6	>	CH <sub>2</sub>	( = 3 )				
		3:6		1:2					
	exi.	H <sub>2</sub> O	>	H20	( ÷ 1	)			
		2:1		2:1					
	Struch	nsal formula	~ draw	lines bet	veen atom	Ь			
			show	covalent b	onds.				
				Н.					
	ex: H-0-0-H								
	(ok)								
				(bett	w, shows appr	bx grow			
						V			

An atomic-level	l view of	elements							
- some eleme	nh exist	in nature	as single al	oms					
- some elements exist in nature as single atoms in their basic units.									
ex: Helium		He							
	(He)		4 4 44 44 4						
		(He)							
			1						
n t			· · · · · ·						
Neon	Ne								
		(Ne)							
	(Ne)	4 7	,						
Iron:	Fe Fe Fe	)							
-1007.	Fe Fe F								
	Fe Fe	. ,	ek.						
		9	DIC.						
Some element	s exist an	Molecu	la: 2 01 mi	re alam					
			bonded 1						
7 diatomic ele	ments	_ H2/							
2 atom	N <sub>2</sub> C	2 F2	Memorize						
~ «In»		TU,							
	7	Br <sub>2</sub>	Brinchhof						
	•	I							



