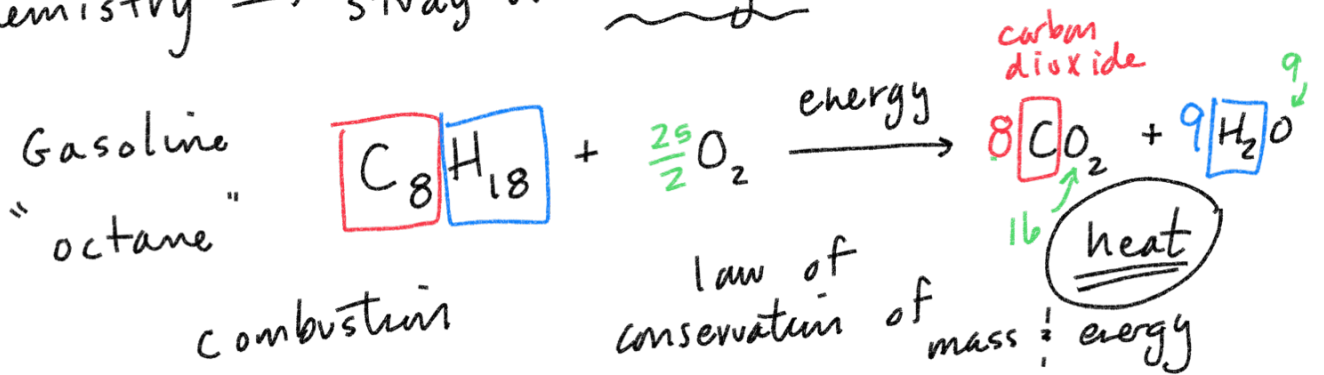
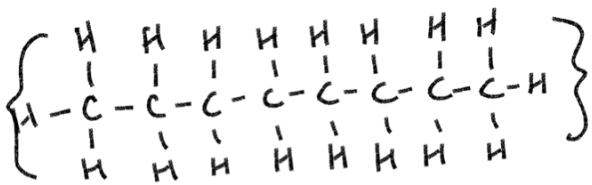


Chemistry → study of change



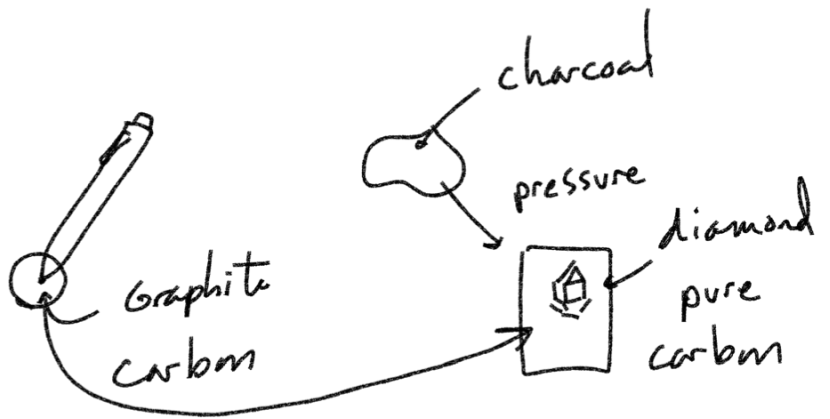
Gasoline is a solution of hydrocarbons



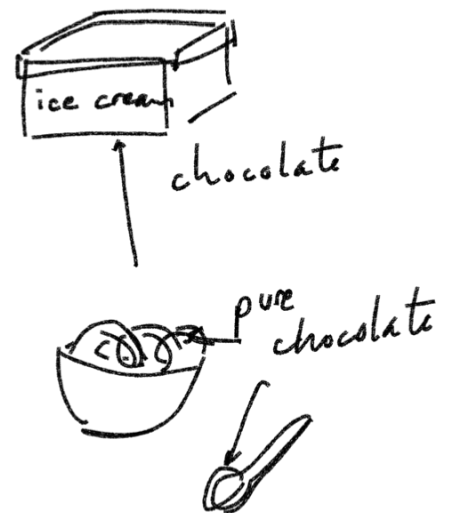
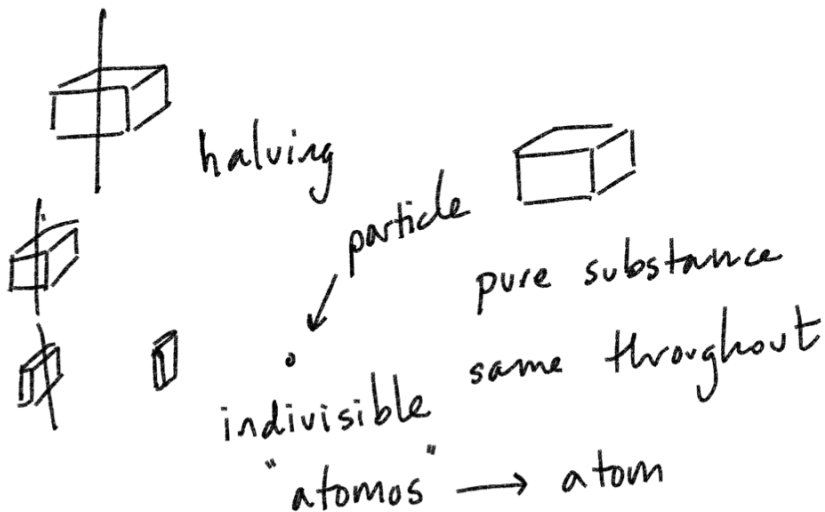
hydrogen ↑ carbons ↑

Carbon

people (carbon-based)



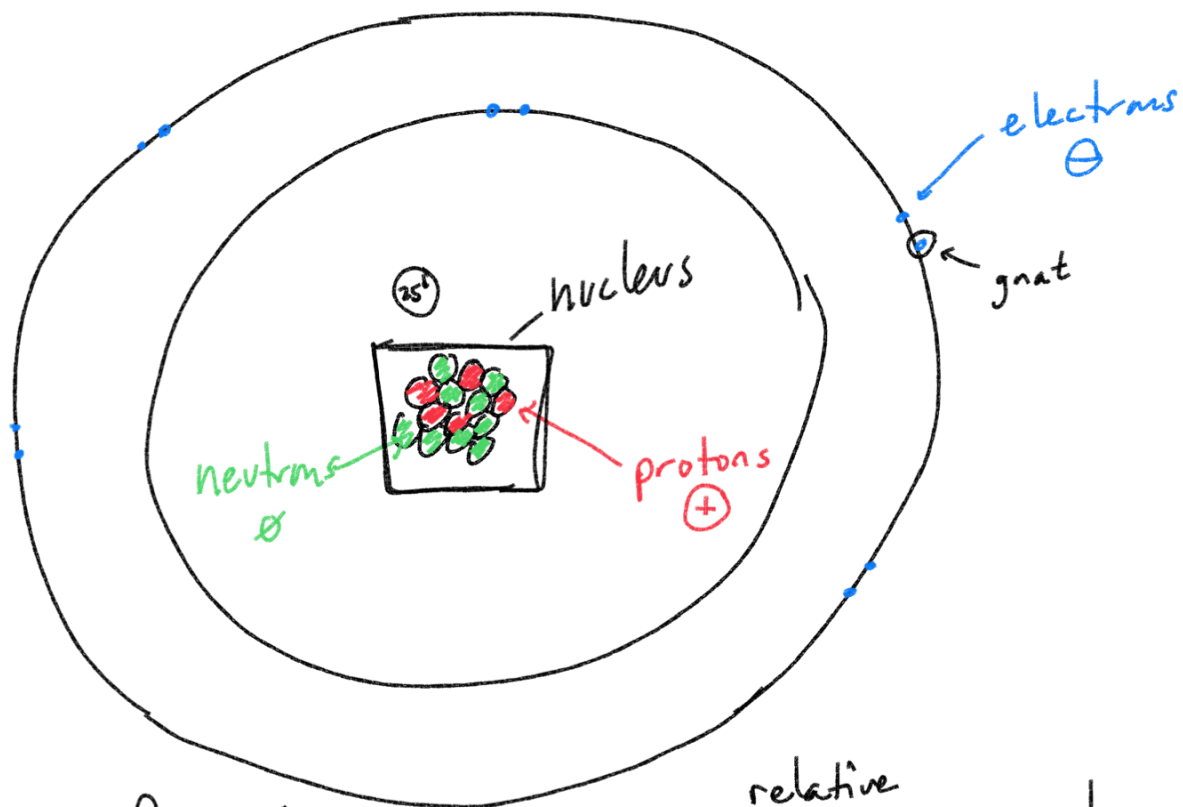
Democritus (democracy)



Atom - basic unit of material that retains its chemical properties.

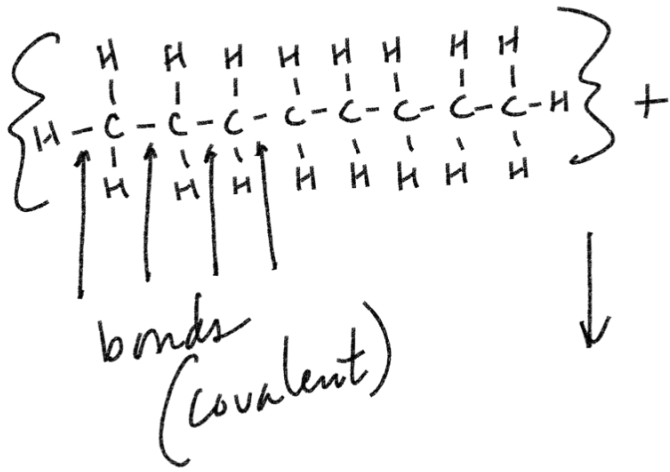
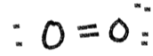
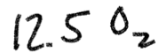
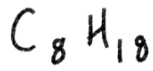
Element - unique atoms, atoms with the same subatomic particles

Ancient Greece - Elements : Earth, Water, Air, Fire

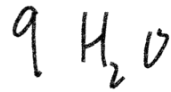
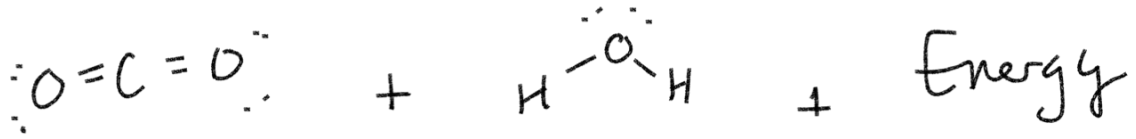


Subatomic Particles	location	relative size	charge
Proton	nucleus	big	+1
Neutron	nucleus	big	0
Electron	orbits the nucleus	small	-1

All mass is mostly empty space!



When bonds  
break  $\rightarrow$   
release energy



Baking soda (sodium bicarbonate)

Vinegar (acetic acid)

glass  
paper towel

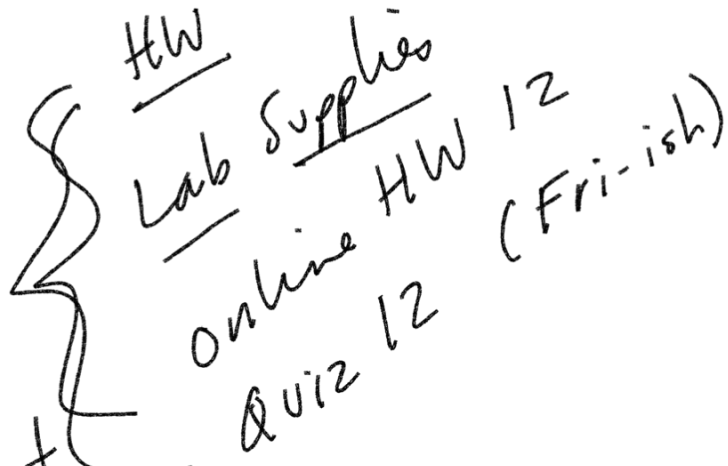
gloves  $\rightarrow$  medical/lab  
latex

Unit 1  
Test

expires

tonight at

midnight



HW

Lab Supplies

online HW 12

Quiz 12 (Fri-ish)