Science 30	Unit B: Chemistry
Lesson 8 - Organic Chemical Pollutants	84 mins

Organic Chemical Pollutants

- 80% of all chemical pollutants are organic	 The other 20% are metallic and other ions or radioactive. Hg, Pb, Cr, etc.
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Benzene (phenyl groups)

 All chemicals with the 6 ringed carbon group VERY stable hard to break down. What used in gasoline until from to be a carcinogen 	
Naming	
- If a branch of another structure, call it phenyl	
 If benzene is the MAIN structure name branches from lowest number, name -yl 	1 butyl 2 methyl benzene
- Name Branches in alphabetical order	CH ₃ C ₄ H ₉
	2 Methyl 3 phenylbutane (aka kitty meow)

Halogenated Hydrocarbons



Chlorofluorocarbons (CFCs)

- Halogenated hydrocarbon with both chlorine and fluorine.
- Also known as freon.
- Non-flammable... and non "toxic"
- Used as a refrigerant,



With the uneven distribution of electron, a chlorine can be released with the addition of UV radiation. Causing a free extremely volatile chlorine to destroy any oxygens in the area... destroys Ozone

Ozone depletion

- CFCs can destroy the ozone by the free chlorines reacting with $\rm O_3$ to make $\rm O_2$
- Polar winds (vortex) can pull these chemicals to the poles of the earth intensifying the problem.
- One chlorine molecule can break up millions of O₃ molecules.



Science 30 - Lesson 22 - Organic Chemical Pollutants

Name:		
Draw the Following compounds		
2, 3 dichloro pentane	1 bromo, 2, iodo benzene	
4 ethyl, 2 flouro, 3 phenyl heptane	2, 2, 3, 3 tetrachloro butane	
Methyl benzene	2 methyl 1,3,5 trinitro (NO₂) benzene	

Name the following compounds



