Video (TVO): Organic Chemistry 2

Polyethylene

1.	. Polyethylene, formed under high pressures, was first used t	0		
2.	. What are some uses for polyethylene?			
3.	Plastics are made of molecules called	, which are extremely		
	molecules.			
4.	. Polymers are made of repeating units called	·		
5.	. One of the simplest monomers is	, which is what polyethylene is		
	made of.			
6.	i. Polyethylene is made through a reaction known as			
7.	The following conditions are needed to convert ethylene into polyethylene:			
8.	The reactive site on ethylene is			
9.	One product of industrial polyethylene synthesis (at a high pressure using benzoyl peroxide as a			
	catalyst) is(LDI	PE), a highly		
	structure. This branching produces a very	plastic.		
10.	Another polymerization process (at a lower pressure and using a chromium oxide catalyst)			
	produces more uniform, linear molecules called	(HDPE).		
Fil	libres la			
	. The fibrous material of plants is	The most		
	compound in the world.			
	. The polymers of cellulose are held together with	bonding between		
	groups.			
3.	. Hydrogen bonds are relatively weak, but it is the	effect that makes		
	this a strong attraction.			
4.	. Nylon is like a protein polymer because it is held together v	with an		
	functional group.			
5.	. A functional group is that part of a molecule that undergoes	s a		

6.	An amide is produced by reacting a	group v	vith an		
	group.				
7.	Nylon, a polyamide, must be	mide, must be so that the hydrogen bonding			
	before it develops its final properties.				
8.	The promising	composite fibres are mainly used in the aerospace			
	industry.				
So	aps				
1.	Why is water alone not a good solvent for bathing or washing clothes?				
2.	Fats and oils are	and therefore cannot be dissolve by water.			
3.	Originally, soap was made by combining	g fatty tied to			
	producing an				
4.	A soap molecule has an	head but a	tail.		
5.	An oily stain is dissolved by a formation called a				
6.	A common detergent is		which is a primary		
	alkyl sulfate and is primarily used in				
AS	SA				
1.	The Willow tree is a natural source of _		, which lowers		
2.	Draw and label a picture of salicylic aci	d:			
3.	A problem with salicylic acid is that it i	s	_ to mucus membranes.		
4.	Hoffman reacted acetic anhydride with	salicylic acid to yield			
5.	ASA blocks the production of	, which i	s involved in the body's		
	"pain reaction".				
6.	Some problems with the use of ASA are	e:			
7.	Brands of ASA only vary in the of ASA and some contain				
8.	cetaminophen does not have properties.				