

Chapter Quiz

1.	Write an equation using structural formulas for the reaction of benzene	23.1
	and iodine.	

Η $+ I_2 \rightarrow$

Classify each of these statements as always true, AT; sometimes true, ST; or never true, NT.

2	. The symbol R is used to represent functional groups.	23.1
3	. Methyl chloride and chloromethane are the same compound.	23.1
4	Alcohols are soluble in water.	23.2
5	H . R – C – OH is the formula for a primary alcohol. H	23.2
6	• The reaction of methane and chlorine produces a mixture of mono-, di-, tri-, and tetrachloromethanes.	23.1
7	Aldehydes and ketones form intermolecular hydrogen bonds.	23.3
8	• The hydrogenation of a double bond is an oxidation reaction.	23.3
9	R–O–R is the general formula of an ether.	23.2
10	• The addition of water to an alkene is a hydrogenation reaction.	23.2
11	Compounds containing a carbonyl group are carboxylic acids.	23.3
12	• The more reduced a carbon compound is, the more energy it can release upon its complete oxidation to carbon dioxide.	23.3
13	• Monomers are molecules that combine to form the repeating unit of a polymer.	23.4
14	. The abbreviated formula for a carboxylate ester is RCOOR.	23.3
15	• The formation of polyester is an example of condensation polymerization.	23.4
16	• The oxidation of an alcohol produces a ketone.	23.3