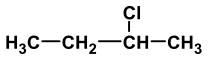
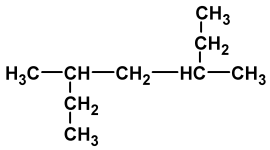
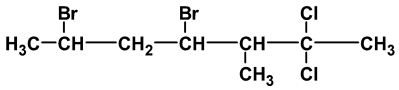
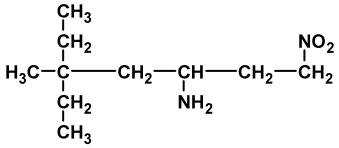
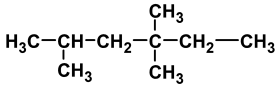
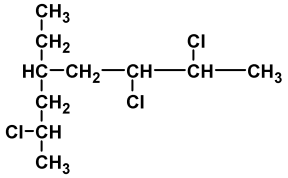
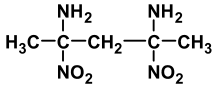
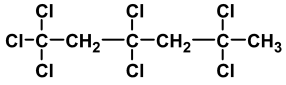
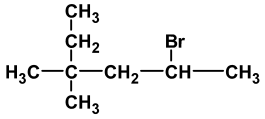
SCH4U1
OC02

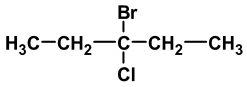
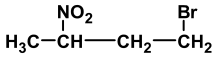
Name:
Date:

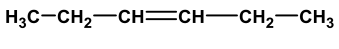
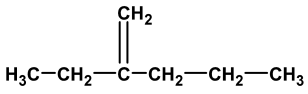
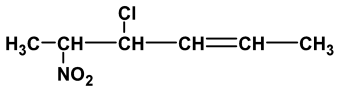
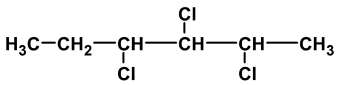
Alkanes, Alkenes, Alkynes and Cyclic Hydrocarbons - Worksheet

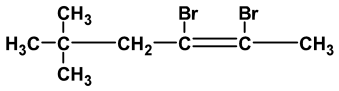
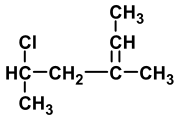
(Please note: highlighted questions should be completed; other questions are for additional practice if required)

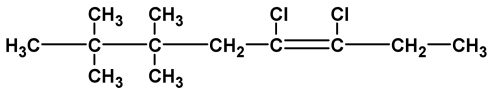
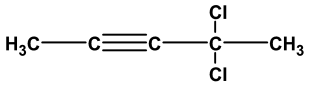
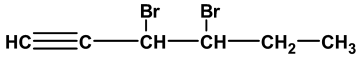
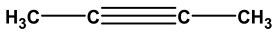
Name or draw the following compounds:

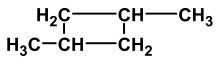
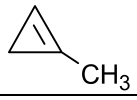
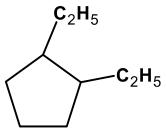
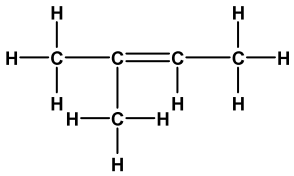
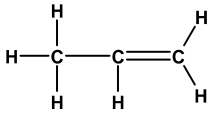
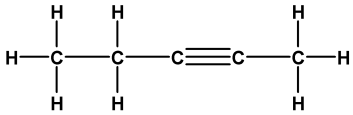
	Chemical structure	IUPAC Name
1		
2		
3		
4		
5		
6		
7		
8		
9		

10		
11		

12		2,3-dichloropentane
13		3-bromo-2-methylheptane
14		1,2-dichloropropene
15		4,4-diamino-2,3,6-trichlorooctane
16		2,2,3,3,4-pentachloropentane
17		
18		
19		
20		

21		
22		

23		
24		5-amino-3-chloro-1-pentene
26		4-chloro-2,2-dinitro-3-heptene
27		*trans*-3-octene
28		
29		
30		
31		5,5-dimethyl-2-hexyne
32		5-amino-3-heptyne
33		a. pentane b. 2-pentene c. 1-pentyne

34		
35		
36		
37		
38		
40		
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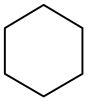
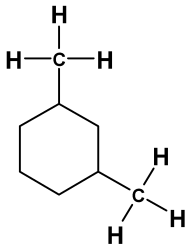
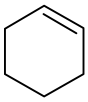
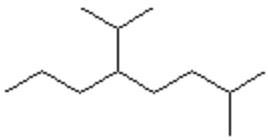
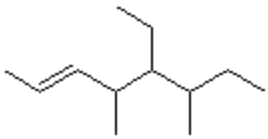
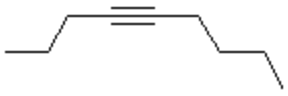
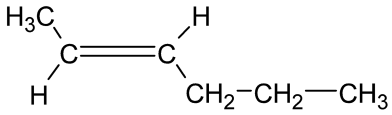
42		
43		
44	 (C_6H_{10})	
45	 ($C_{12}H_{26}$)	(recall that in line diagrams, lines represent carbon-carbon bonds; this contains isopropyl)
46	 ($C_{12}H_{24}$)	

47	 (C_9H_{16})	
48		1,3-diaminopropane (line diagram)
49		5-ethyl-4,5-dimethyl-*trans*-2-heptene (line diagram)
50		(indicate if it is *cis or trans* isomer)