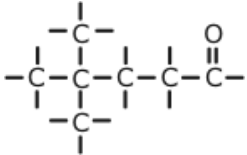
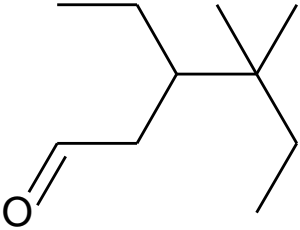
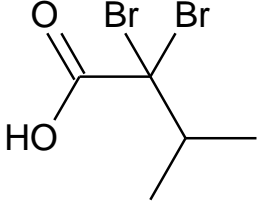
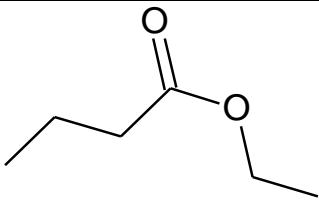
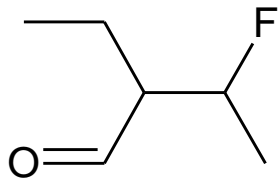
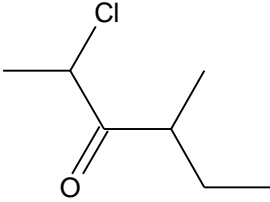
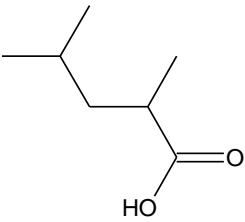


Wk 13- Aldehyde & Carboxylic & Ketones & Ester

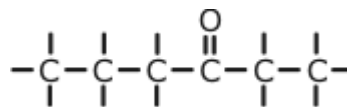
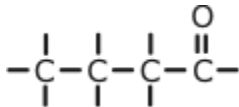
INSTRUCTIONS: Complete the following chart.

	Structural Diagram	Name
1		2,2-dimethyl-3-propylheptanal
2	 <p>A structural diagram of 2,2-dimethyl-3-propylheptanal. It shows a seven-carbon aldehyde chain. The carbonyl group is at the right end. The second carbon from the right has two methyl groups attached. The third carbon from the right has a propyl group attached.</p>	
3		3-methyl-2-butanone
4	 <p>A skeletal structure of 3-methyl-2-butanone. It shows a four-carbon chain with a double-bonded oxygen on the second carbon and a methyl group on the third carbon.</p>	
5		3-chloro-2,4-difluorooctanal
7	 <p>A skeletal structure of 3-chloro-2,4-difluorooctanal. It shows an eight-carbon aldehyde chain. The carbonyl group is at the left end. The second carbon has a fluorine atom attached. The third carbon has a chlorine atom attached. The fourth carbon has a fluorine atom attached. The fifth carbon has a methyl group attached.</p>	
8		4,4-dimethyl-2-pentanone

9		
10		3-methyl-2-fluoro-4-butyl octanal
11		
12		3-hexanone
13		
14		

**Aldehyde, ketone, carboxylic acid and ester**

15. Provide a IUPAC name for each aldehyde or ketone.



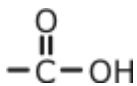
16. Provide a structural formula for each aldehyde or ketone.

a. 3-methylbutanal	b. octanal
--------------------	------------

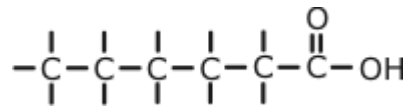
17. Draw structural formulas for and name three isomers of C<sub>4</sub>H<sub>8</sub>O.

18. Provide a IUPAC name for each structural formula.

a.



b.



19. Provide a structural formula for each carboxylic acid

a. heptanoic acid	b. ethanoic acid	c. 2-methylpentanoic acid

20. Provide a structural formula for each ester.

a. methyl ethanoate	b. ethyl ethanoate

21. Draw structural formulas for and name the carboxylic and ester isomers for each molecular formula.

a. C<sub>3</sub>H<sub>6</sub>O<sub>2</sub>

b. C<sub>4</sub>H<sub>8</sub>O<sub>2</sub>