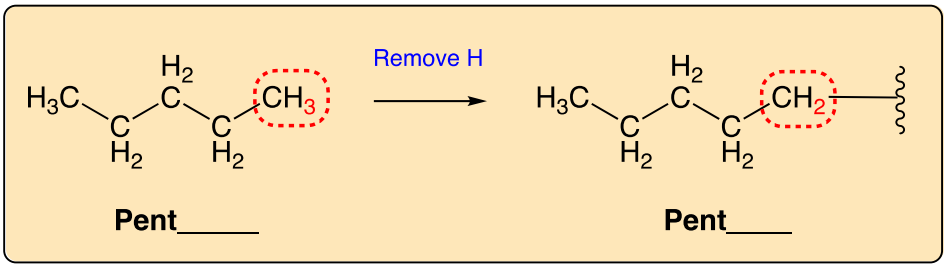
CONCEPT: THE ALKYL GROUPS

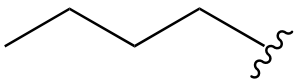
- Before learning to name more organic compounds, we must first take a look at the names of _____ *groups*.
  - □ **Alkyl Groups**: formed by removal of a ____ from an _____ compound.
    - Name alkyl group by using alkane prefixes with _____ suffix.

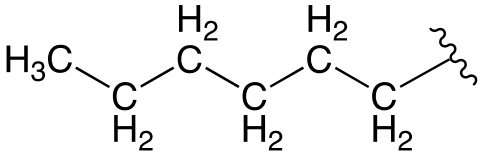


Alkyl Prefixes

# of Cs	Prefix	# of Cs	Prefix
1	Meth-	4	But-
2	Eth-	5	Pent-
3	Prop-	6	Hex-

EXAMPLE: Provide names of the alkyl groups below.

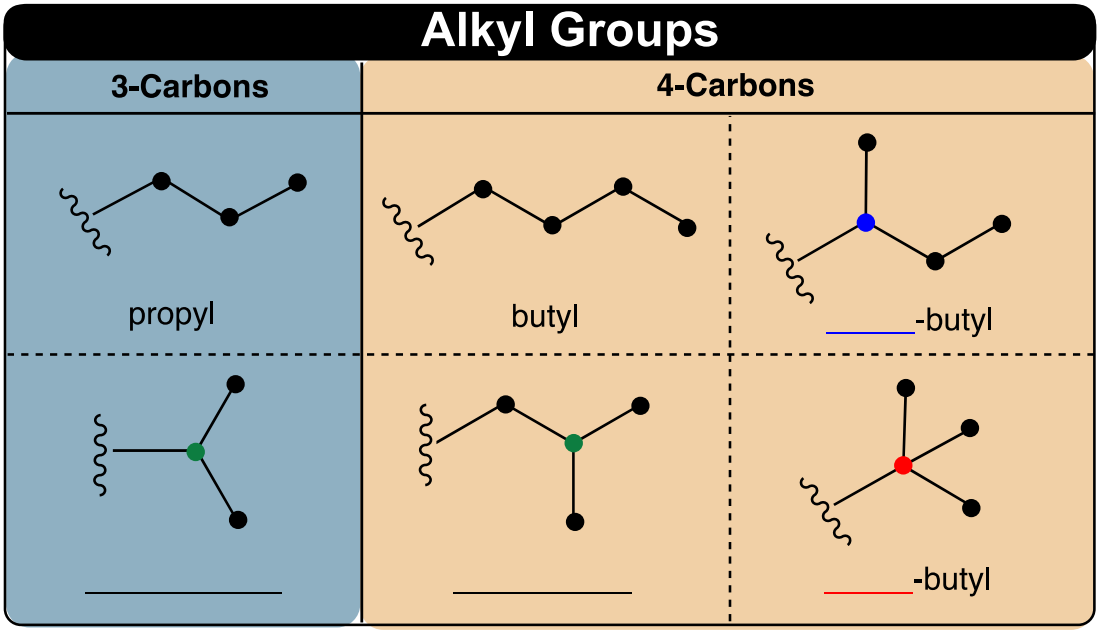
i) 

ii) 

CONCEPT: THE ALKYL GROUPS

3 and 4 Carbon Alkyls

- We must learn additional names for alkyl groups with 3 and 4 carbons.
  - □ These molecules have _____ isomers.



- □ **Secondary Carbon**: C attached to ___ other Cs; **Tertiary Carbon**: C attached to ___ other Cs.

EXAMPLE: Provided below is a structure of an alkane. Identify names of all alkyl groups present in red.