

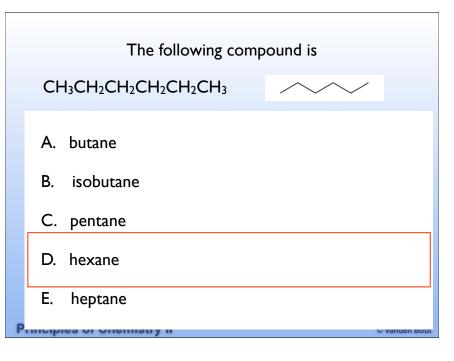
Number of Carbons	Prefix	Structure	
1	Methane	CH <sub>4</sub>	
2	<i>Eth</i> ane	CH <sub>3</sub> CH <sub>3</sub>	
3	Propane	CH <sub>3</sub> CH <sub>2</sub> CH <sub>3</sub>	
4	Butane	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> CH <sub>3</sub>	
5	Pentane	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>3</sub> CH <sub>3</sub>	
6	Hexane	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>4</sub> CH <sub>3</sub>	
7	Heptane	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>5</sub> CH <sub>3</sub>	
8	Octane	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>6</sub> CH <sub>3</sub>	
9	<i>Non</i> ane	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>7</sub> CH <sub>3</sub>	
10	Decane	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>8</sub> CH <sub>3</sub>	$C_{12}H_{26}$
11	Undecane	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>9</sub> CH <sub>3</sub>	0121.20
12	Dodecane	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>10</sub> CH <sub>3</sub>	

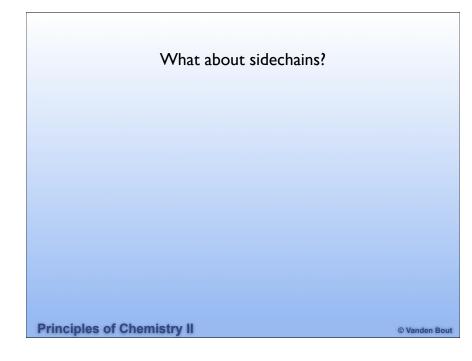
## **Principles of Chemistry II**

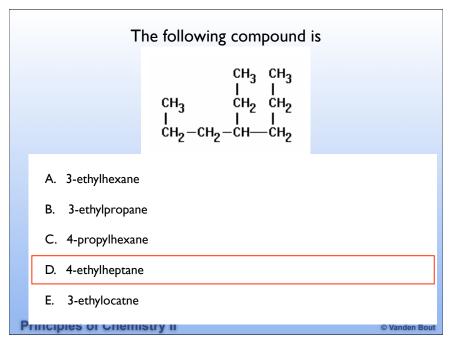
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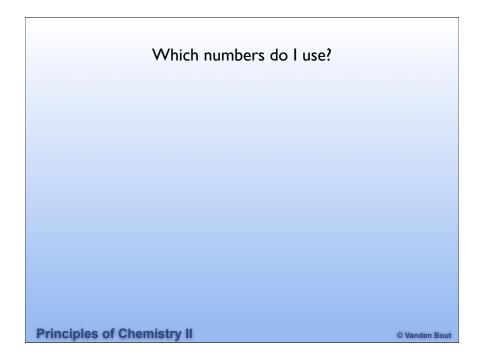
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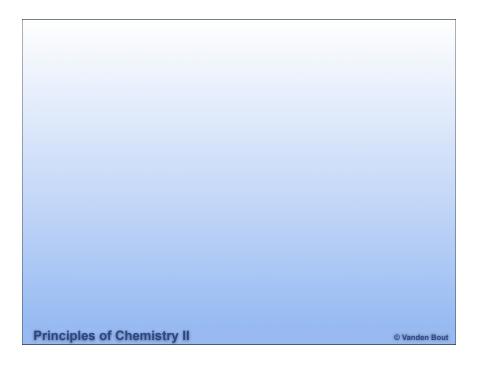
Number of	Name of Name of				
carbon atoms	Formula	alkane	alkyl group	Formula	
1	$CH_4$	methane	methyl	CH <sub>3</sub> -	
2	CH <sub>3</sub> CH <sub>3</sub>	ethane	ethyl	CH <sub>3</sub> CH <sub>2</sub> -	
3	CH,CH,CH,	propane	propyl	CH,CH,CH,-	
4	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> CH <sub>3</sub>	butane	butyl	$CH_3(CH_2)_2CH_2 -$	
5	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>3</sub> CH <sub>3</sub>	pentane	pentyl	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>3</sub> CH <sub>2</sub> -	
6	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>4</sub> CH <sub>3</sub>	hexane	hexyl	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>4</sub> CH <sub>2</sub> -	
6 7 8	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>5</sub> CH <sub>3</sub>	heptane	heptyl	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>5</sub> CH <sub>2</sub> -	
8	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>6</sub> CH <sub>3</sub>	octane	octyl	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>6</sub> CH <sub>2</sub> -	
9	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>7</sub> CH <sub>3</sub>	nonane	nonyl	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>7</sub> CH <sub>2</sub> -	
10	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>8</sub> CH <sub>3</sub>	decane	decyl	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>8</sub> CH <sub>2</sub> -	
11	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>9</sub> CH <sub>3</sub>	undecane	undecyl	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>9</sub> CH <sub>2</sub> -	
12	$CH_3(CH_2)_{10}CH_3$	dodecane	dodecyl	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>10</sub> CH <sub>2</sub> -	

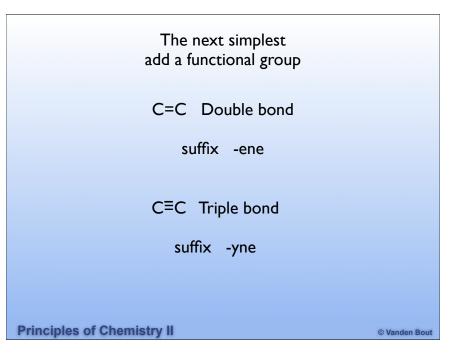


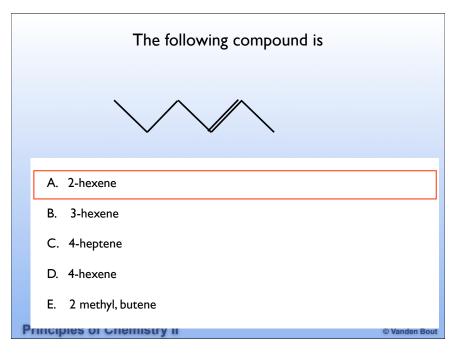


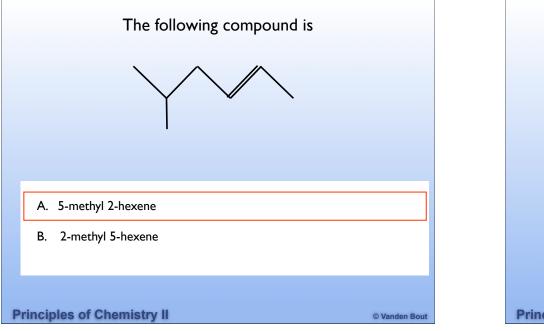


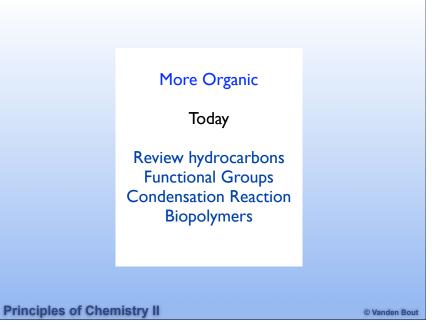


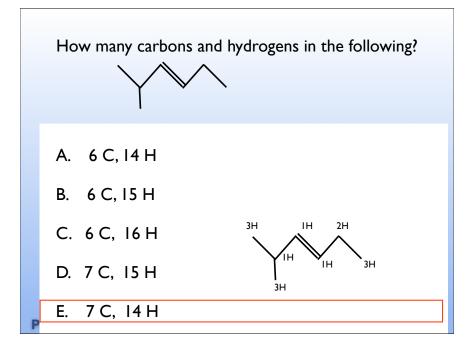


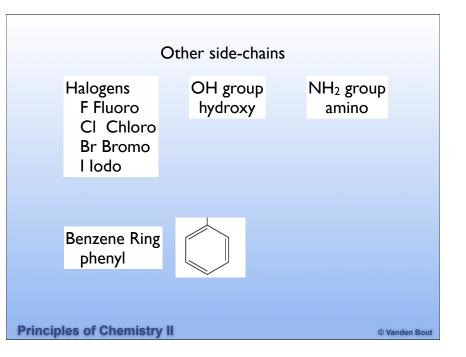


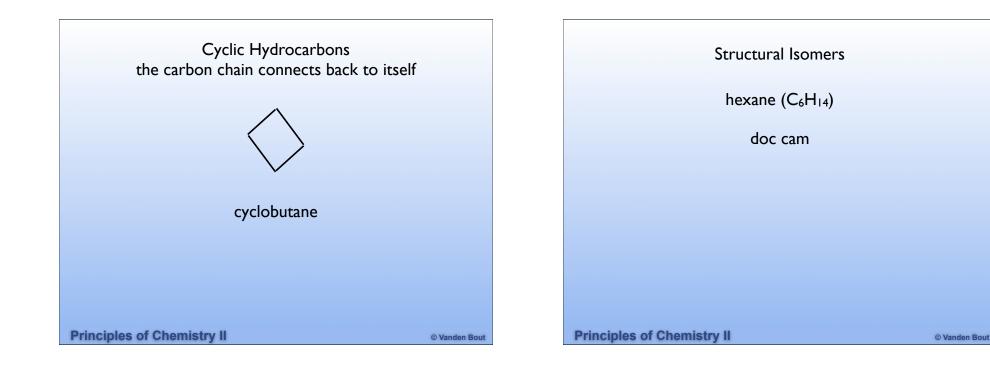


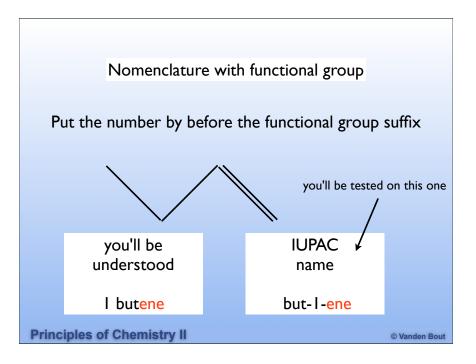


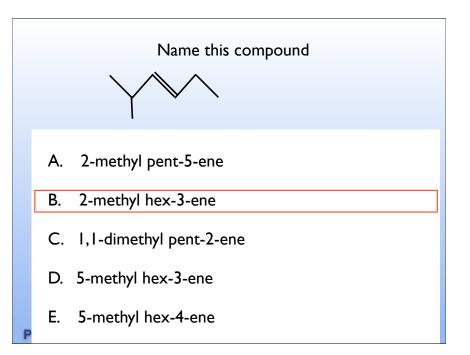


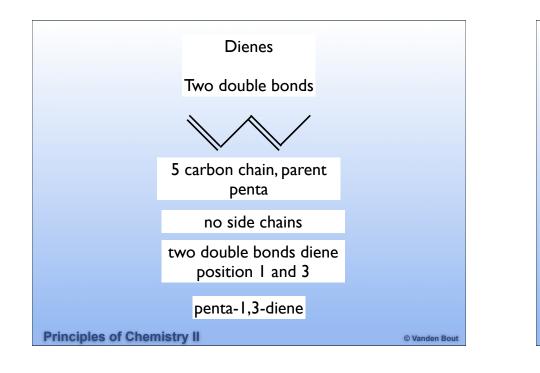


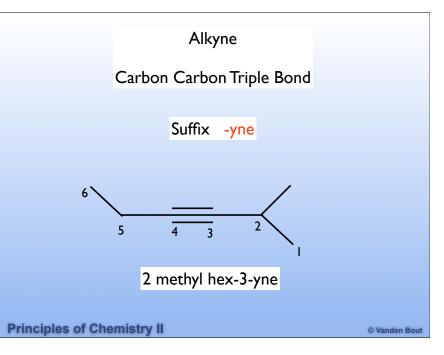


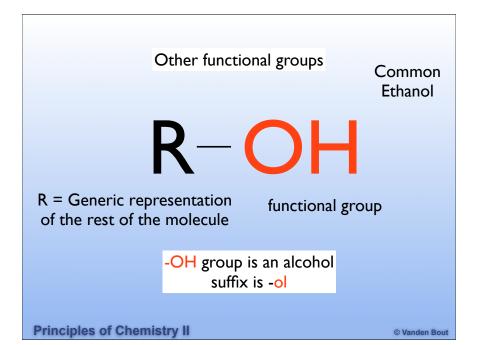


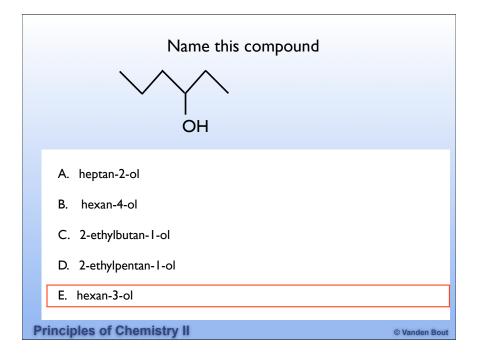


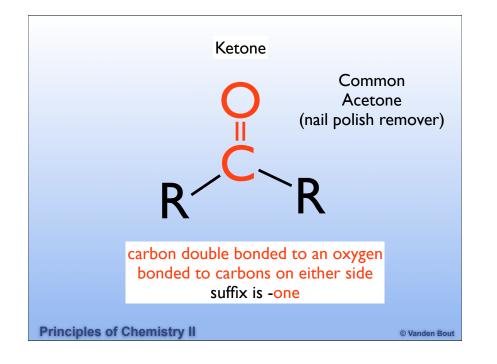


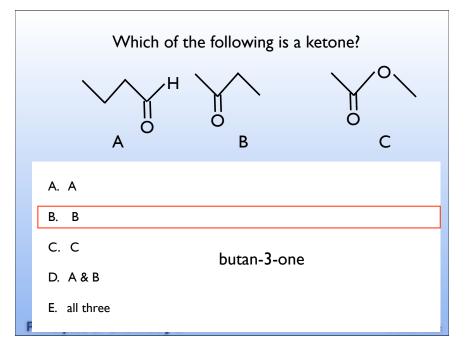


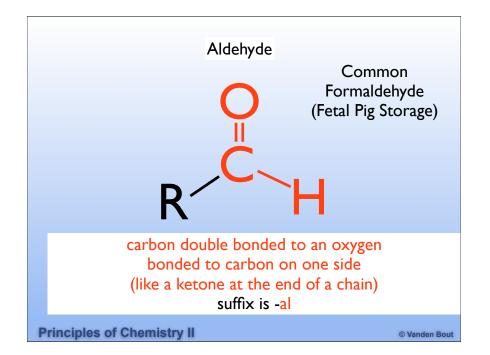


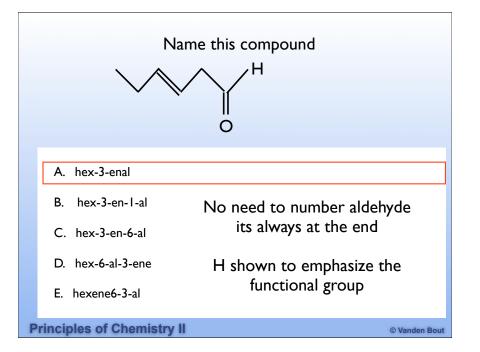


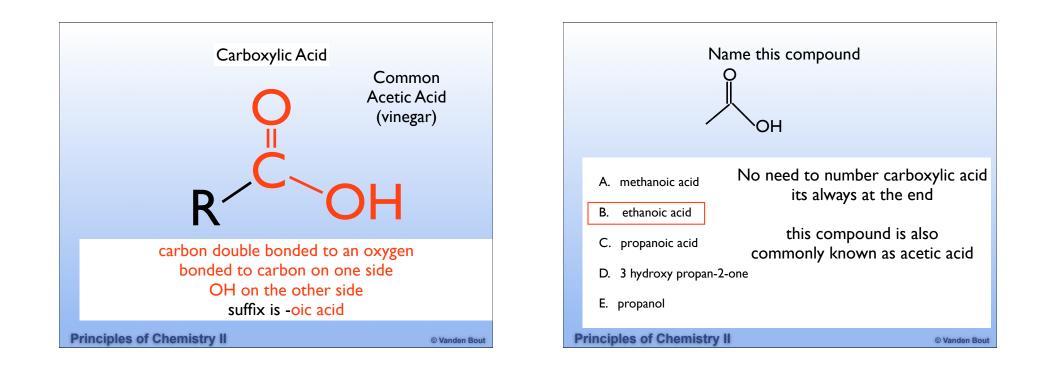


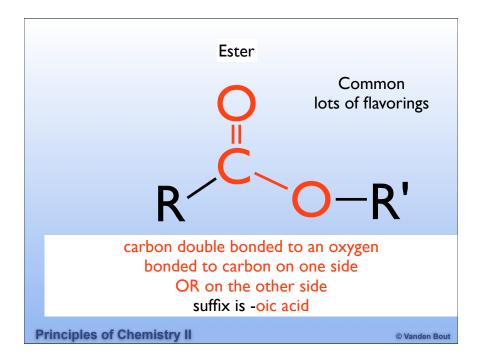


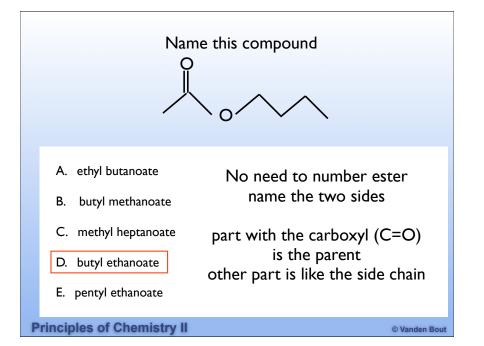


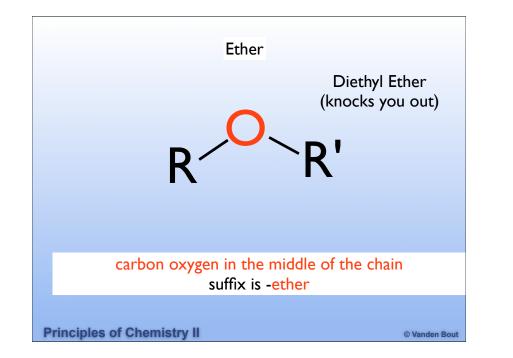


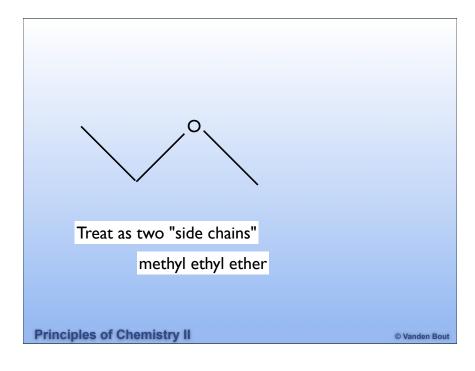


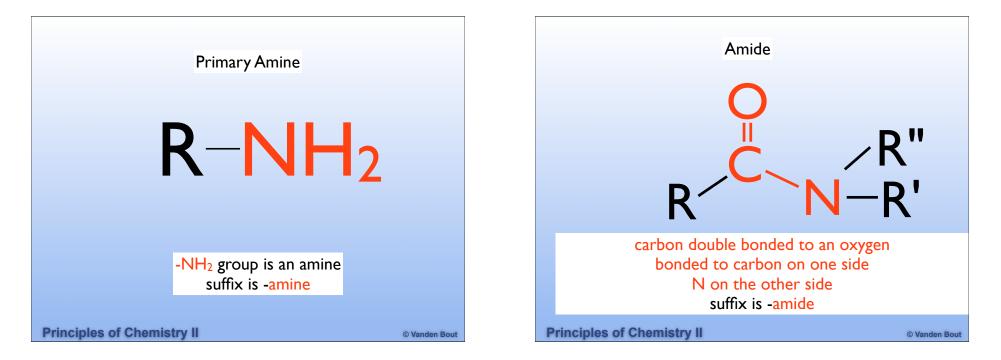


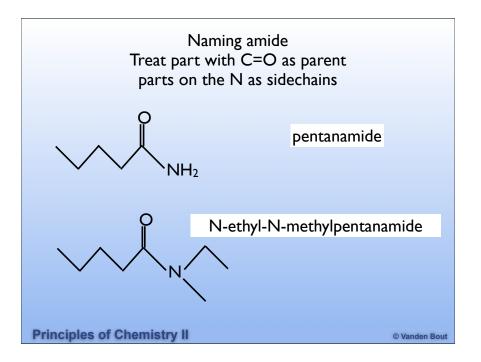


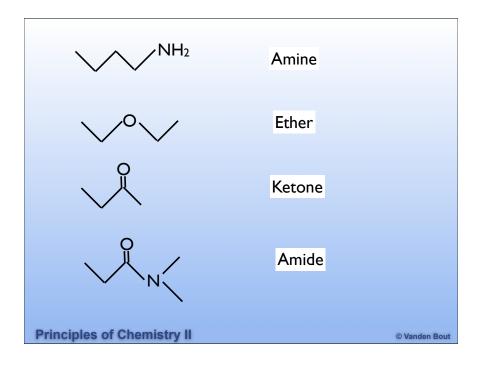


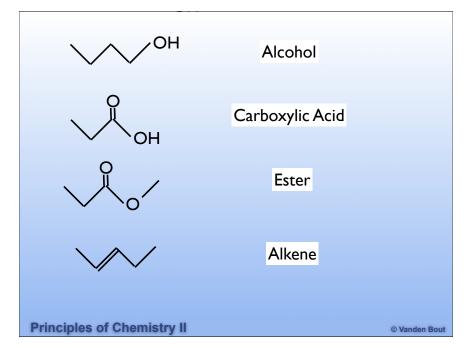


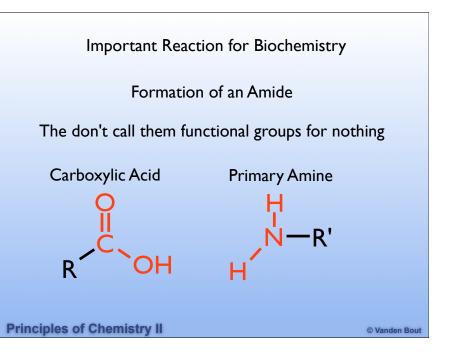


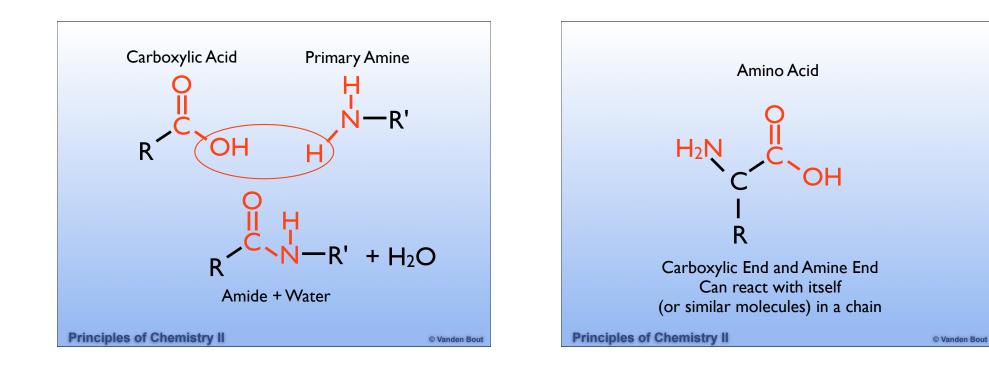


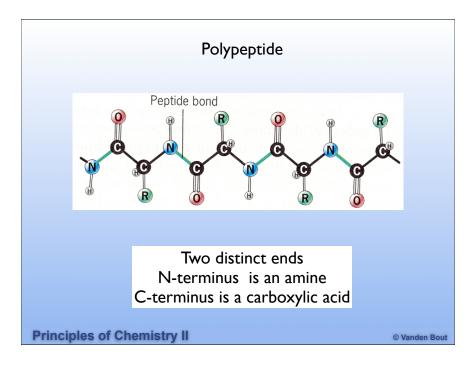


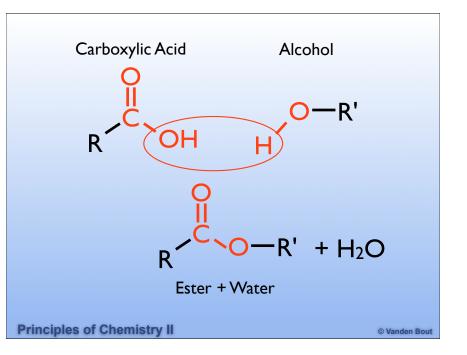


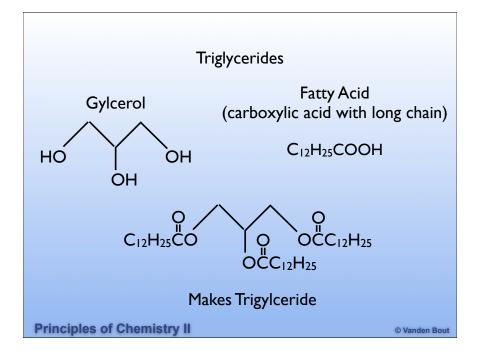


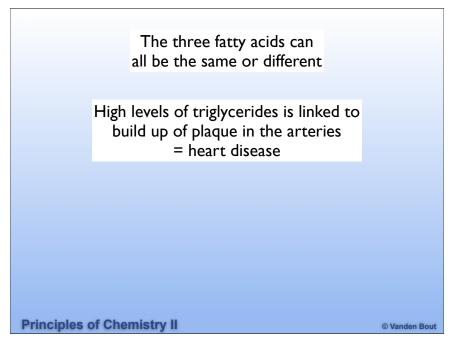


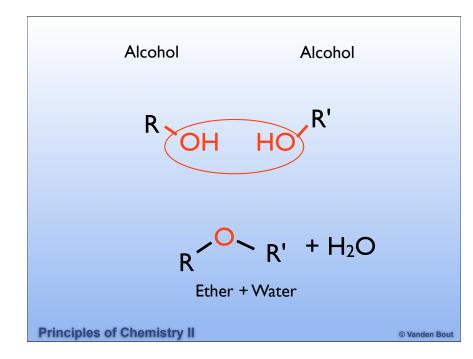


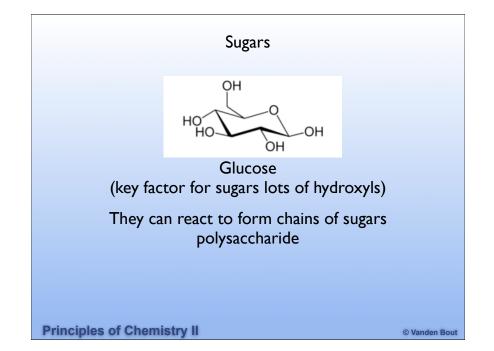


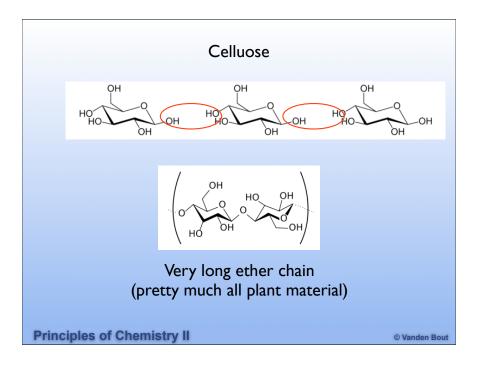


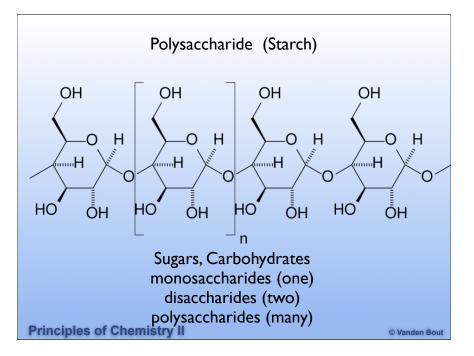












Condensation Reactions (two molecules make one + water) Carboxylic Acid + Amine = Amide + water Carboxylic Acid + Alcohol = Ester + water Alcohol + Alcohol = Ether + water

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