

# Y12 – Alkenes Checklist

Stick this checklist into your yellow book at the beginning of the topic. Tick off the topics as you cover them.		
In this module you are expected to be able to...	In Notes	Revised
<ul style="list-style-type: none"><li>Define the terms<ul style="list-style-type: none"><li><math>\pi</math>-bond</li><li>Electrophile</li><li>Stereoisomer</li><li>E/Z isomer</li><li>Cis/Trans isomer</li></ul></li></ul>		
<ul style="list-style-type: none"><li>Recall the bond angle and shape of ethene and therefore alkenes in general.</li></ul>		
<ul style="list-style-type: none"><li>Explain how a <math>\pi</math>-bond is formed and why it is more reactive than a <math>\sigma</math>-bond.</li></ul>		
<ul style="list-style-type: none"><li>Name alkenes using IUPAC nomenclature.</li></ul>		
<ul style="list-style-type: none"><li>Draw a reaction mechanism for electrophilic addition.</li></ul>		
<ul style="list-style-type: none"><li>Predict the reactions of alkenes with hydrogen, water, halogens and hydrogen halides including all reagents and conditions.</li></ul>		
<ul style="list-style-type: none"><li>Predict which structural isomer will form from an asymmetrical alkene using Markownikoff's rules.</li></ul>		
<ul style="list-style-type: none"><li>Use Cahn-Ingold-Prelog nomenclature to assign E/Z isomerism.</li></ul>		
<ul style="list-style-type: none"><li>Draw stereoisomers of alkenes given different reaction schemes and structural formulae.</li></ul>		
<ul style="list-style-type: none"><li>Describe addition polymerisation using equations, and be able to predict monomer/polymers from the reaction scheme.</li></ul>		
<ul style="list-style-type: none"><li>Give benefits of combustion and feedstock recycling, and describe how HCl is removed from waste gases when burning PVC.</li></ul>		
<ul style="list-style-type: none"><li>Give benefits of biodegradable and photodegradable polymers.</li></ul>		

## Pre-test Evaluation

I have...	
Updated my yellow book notes	
Ensured I understand all of my notes	
Looked on the open drive for additional work	
Asked my teacher for guidance	
Confidence rating	I'm doomed!    --    -    =    +    ++    I am the BOSS!