The Michael Reaction (Conjugate addition with an α -Carbon Nu)

We have seen that nucleophiles can add across α,β -unsaturated double bonds, (conjugate addition). When the nucleophile is an α -carbon nucleophile, this reaction is called <u>Michael</u> addition.





- Draw a (----) line across the new C–C bond in the product
- Identify the nucleophilic carbon
- Assign partial charges to atoms of the electrophile to indicate their state of polarization in the reactant
- Number the carbonyl carbons in the product and use this to recognize "Michael adducts"





