**Revision for validation**

1. Production of biodiesel using base-catalysed transesterification with methanol.
2. Differences between condensed formula structural formula
3. Role of catalyst for the transesterification reaction
4. Reason for keeping the amount of catalyst in Biodiesel production is kept as low. What products can form if it is not in controlled amount? Draw the structure.
5. Relationship between yield of biodiesel and ratio of methanol to oil. Explain in terms of collision theory if the ratio of reactants increased. What happens to the forward/ reverse reactions? Where does the equilibrium shift?
6. In terms of rate and yield explain why a compromise temperature is used for the reaction.
7. Equation for reaction of producing Biodiesel
8. Watch youtube on Biodiesel production
   1. Purification of biodiesel using water
9. Systematic/ random error
10. Parts per million calculation
11. Density = mass/ volume
12. What is an enzyme and how can it minimise the formation of unwanted reactions
13. Independent, dependent and controlled variables

This is not enough study well all notes in connect and in your PowerPoint, calculations related to biodiesel