Oxidation of alcohols

Primary Secondary **Tertiary**

Classify each alcohol as primary/secondary/tertiary

Oxidation of carbon compounds involves			
Reduction of carbon compounds involves			
Primary alcohols can be oxidis	sed to	and then	
, and secondary alcohols			
oxidised to	_ using		
(_ to) and	
	(to	
). Tertiary alc	ohols	_ be oxidised.	
Primary alcohol			
Secondary alcohol			
Tertiary alcohol			

1) Show the oxidation product(s)

2) Show the reduction product

Carbonyl compounds

Aldehydes and ketones contain the _____ functional group

Aldehyde structure

Ketone structure

Naming carbonyl compounds

- 1. Count the longest chain containing the carbonyl group
- 2. Number from the end nearest the carbonyl
- **3.** If C=O =1, name ends in -al, if C=O >1, name ends in -one and number inserted into name
- 4. Name branches

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1)Name the compounds

2) Draw:				
2-methylpropanal		butanone		
2,2-dimethylhexan-3-d	one	methanal		
Aldehydes can be oxidised to				
Oxidising Agent	Starting colour	End colour		
Aldehydes and ketone	s are	compound	ds and	
are commonly used as	.	_ and		
compounds.				

Carbon compounds in food can	be by the	
in the air. This can cause oils to become		
To prevent this	are added to foods.	
Antioxidants are	and will oxidise in	
place of the compounds they are added to protect.		