**Level 3 Organic Types of Reactions**

**DIOL**

Oxidation

Total Oxidation

Addition/Hydration

**1º**

**CARBOXYLIC ACID**

**ALCOHOL**

**ALKENE**

Elimination/ Dehydration/ Condensation

­partial Oxidation

Oxidation

Addition/ Halogenation Bromination/ Chlorination

**3º**

**2º**

Reduction

**­­**

Substitution

**ALDEHYDE**

Oxidation

Elimination

Substitution

Substitution

**KETONE**

**HALOALKANE**

Substitution/ Acid (or Base) Hydrolysis

Substitution/ Hydrolysis

Substitution/ Esterification/ Condensation/

Substitution

Substitution

**ACYL CHLORIDE**

**ESTER**

**AMINE**

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Substitution

**AMIDE**