



ACROSS

- 2** _____ is a chemical reaction or process in which a chemical compound is broken down by reaction with water.
- 4** A _____ reaction is a chemical reaction in which two molecules or moieties combine to form one single molecule, together with the loss of a small molecule.
- 7** An acid _____ is an organic compound which has two acyl groups bound to the same oxygen atom.
- 8** _____ is the general name for a chemical reaction in which two chemicals, such as an alcohol and an acid, form an ester as the reaction product.
- 9** _____ or ethanoylation describes a reaction that introduces an acetyl functional group into an organic compound.
- 11** _____ acids are organic acids characterized by the presence of a carboxyl group.
- 12** A _____ group is a functional group derived by the removal of one or more hydroxyl group from an oxoacid.

DOWN

- 1** _____ esterification is the process of forming an ester by refluxing a carboxylic acid and an alcohol in the presence of an acid catalyst.
- 3** _____ is the hydrolysis of an ester under basic conditions to form an alcohol and the salt of a carboxylic acid.
- 5** Nucleophilic _____ substitution describes the substitution reaction involving nucleophiles and carboxylic acid derivatives including esters, amides and acid halides.
- 6** _____s are a class of chemical compounds and functional groups which consist of an inorganic or organic acid in which at least one hydroxyl group has been replaced by an alkoxy group.
- 9** _____s are a class of chemical compounds and functional groups in which a carbonyl group carbon is linked to a nitrogen atom.
- 10** A _____ or acid halide is a chemical compound derived from an acid by replacing a hydroxyl group with a halide group.