



ACROSS

- 1 A _____ reaction is an organic reaction where two or more molecules combine to form a larger one.
- 3 A _____ addition reaction is an addition reaction where, in a chemical compound, a pi bond is removed by the creation of two new covalent bonds.
- 6 _____ is a chemical compound containing two carbons and four hydrogens. It is the simplest alkene.
- 7 _____ is the preference of one direction of chemical bond making or breaking over other possible directions.
- 8 A halogen _____ reaction is a simple organic reaction where a halogen molecule is added to the carbon-carbon double bond of an alkene functional group.
- 10 _____ is a class of chemical reactions which result in an addition of hydrogen usually to unsaturated organic compounds.
- 11 _____'s rule states that if more than one alkene can be formed by an elimination reaction, the more stable alkene is the major product.
- 12 In organic chemistry, a _____ is an unsaturated chemical compound containing at least one carbon-to-carbon double bond.

DOWN

- 1 Syn and _____ addition are different ways in which two substituents can be added to a double bond or triple bond.
- 2 A _____ reaction is a chemical reaction in which a hydroxyl group and a hydrogen cation are added to the two carbon atoms bonded together in the carbon-carbon double bond which makes up an alkene functional group.
- 4 _____ is a process of bonding monomers, or single units together through a variety of reaction mechanisms to form longer chains named polymers.
- 5 A _____ is a substance composed of molecules with large molecular mass composed of repeating structural units, or monomers, connected by covalent chemical bonds.
- 9 Cis-_____ isomerism or geometric isomerism is a form of stereoisomerism describing the orientation of functional groups within a molecule, typically double bonds which cannot rotate.