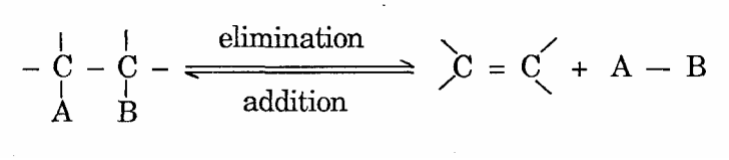
CHEMISTRY DAILY PLAN

Class: **Date:**

Subject: ***Preparations of Alkenes*** **Time:**

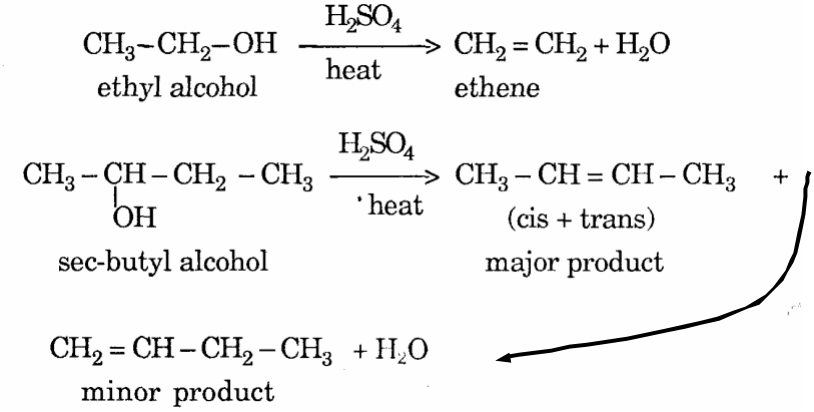
A carbon-carbon double bond is introduced into saturated molecules by **elimination reactions,** reactions in which two elements or groups are removed from adjacent carbon atoms. Eliminations are formerly the reverse of additions.



The compound A-B is usually a small inorganic molecule such as (H-OH) or a hydrogen halide (H-Br or H-C1).

DEHYDRATION OF ALCOHOLS

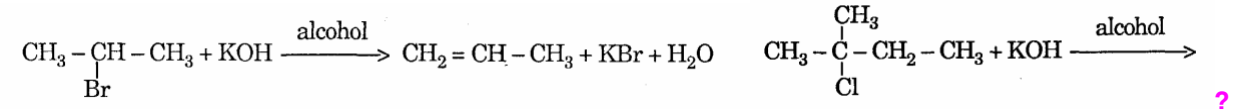
The elimination of water is achieved by heating an alcohol with an acid catalyst.



DEHYDROHALOGENATION OF ALKYL HALIDES

The elimination of a molecule of a hydrogen halide can be carried out by using a strong base.

For example: Potassium hydroxide dissolved in an alcohol.



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Exercise: Give the structural formula of alkyl halide that on dehydrohalogenation gives only the indicated alkene. a) 2-pentene b) 4-methyl-1-pentene