

## **ROADMAP PROBLEM: 1**

A (Solution is dextro rotatory)  $\xrightarrow{\text{Conc. H}_2\text{SO}_4}$   $\rightarrow$  Black particles (B) specific rotation = +66°

$$H_2O$$

$$A_1 + A_2 \qquad A_1 \text{ or } A_2 \xrightarrow{\Delta} \begin{array}{c} \text{Conc. } H_2SO_4 \\ \text{Dack particles} \end{array}$$

$$\text{dextro} \quad \text{Laevo} \quad \text{observed}$$

(Overall mixture of A<sub>1</sub> and A<sub>2</sub> is laevorotatory)

$$CaCO_3 \xrightarrow{\Delta} CO_2 \uparrow + CaO \xrightarrow{+ Black} D \xrightarrow{+ H_2O} E$$

