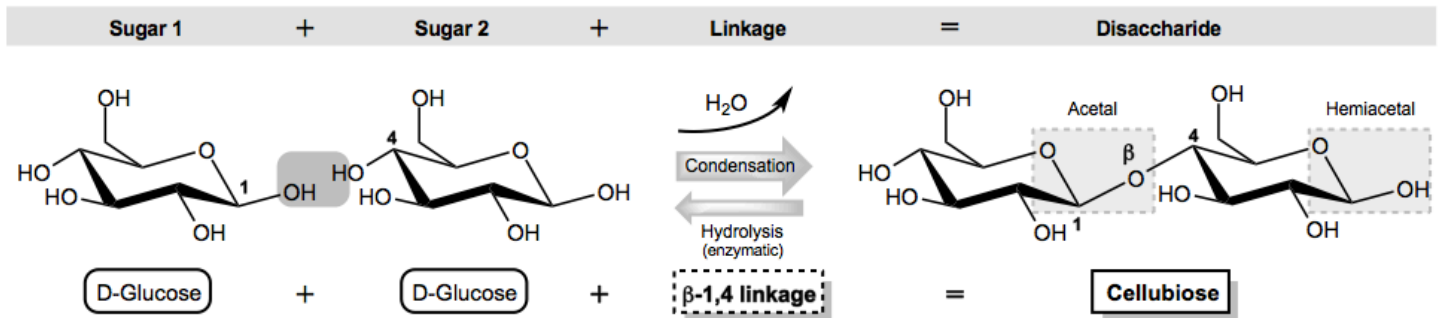


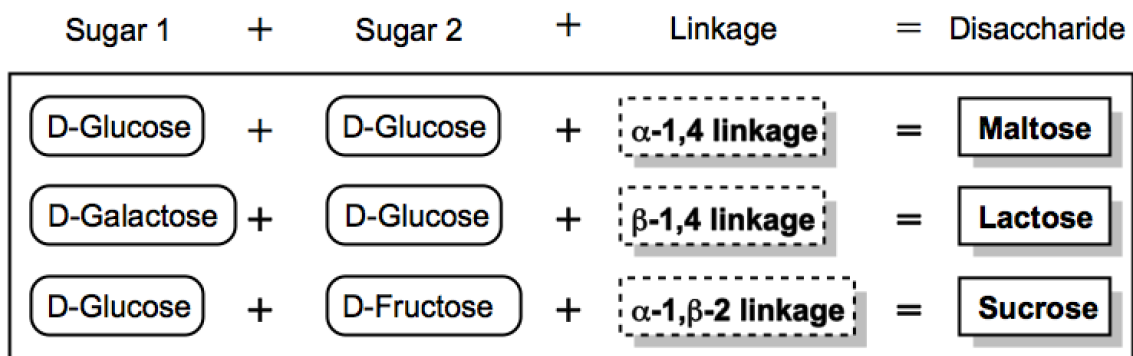
CONCEPT: CONDENSATION INTO DISACCHARIDES

Two monosaccharides bound by an O-glycosidic linkage (α or β)

- Two alcohols react in a **condensation** mechanism to release water and form an _____ linkage
- Will not *mutorotate*, unless hydrolyzed

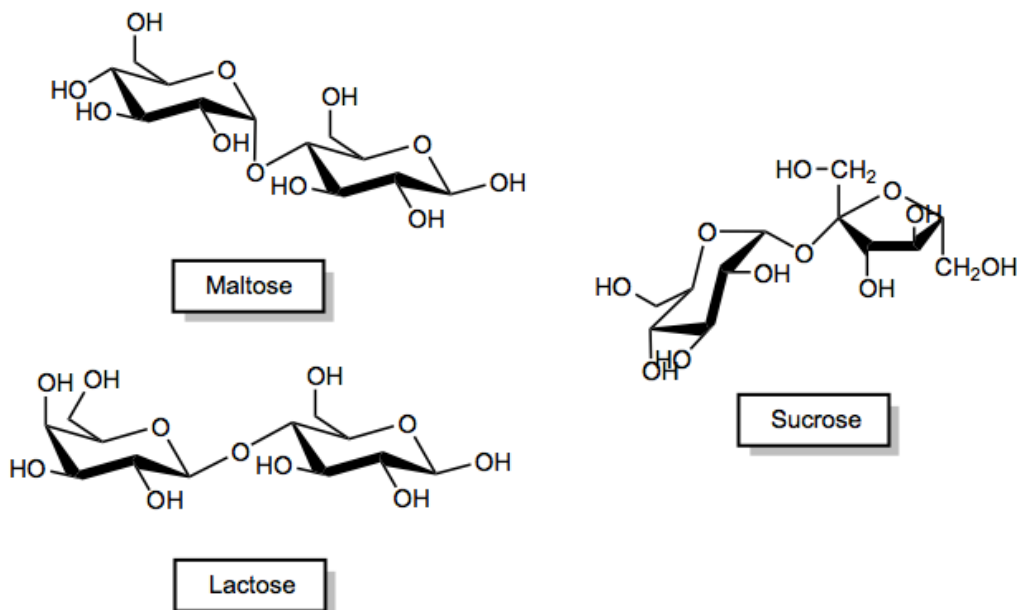


Important Disaccharides:



- **FUN FACT:** Humans can't digest carbohydrates with O-(β -glycosidic) linkages, with **one** important exception

PRACTICE: Identify the following disaccharides as reducing sugars (RS) or non-reducing sugars (NS)



PRACTICE: Draw a theoretical acid-catalyzed Fischer Glycosidation mechanism for the condensation of D-Glucose into cellubiose. (Note: This reaction would lead to very poor yields of cellubiose- can you hypothesize why?)

