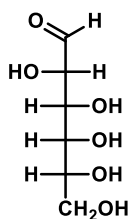
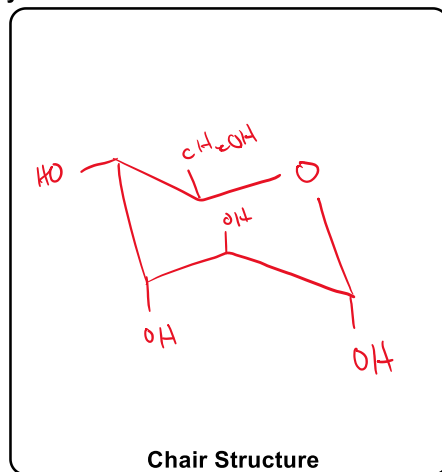
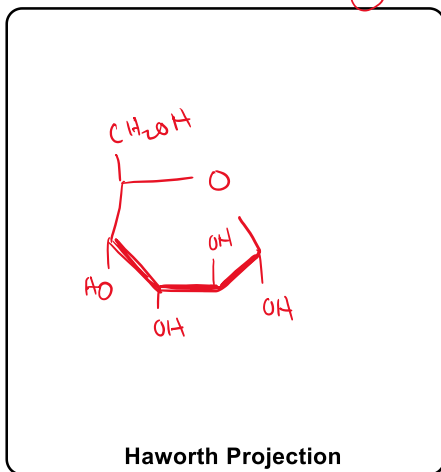
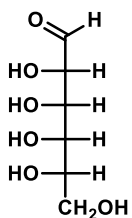
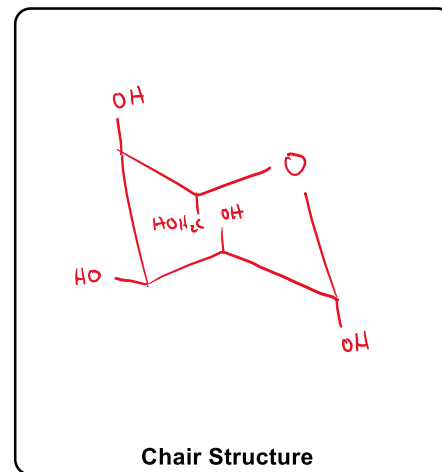
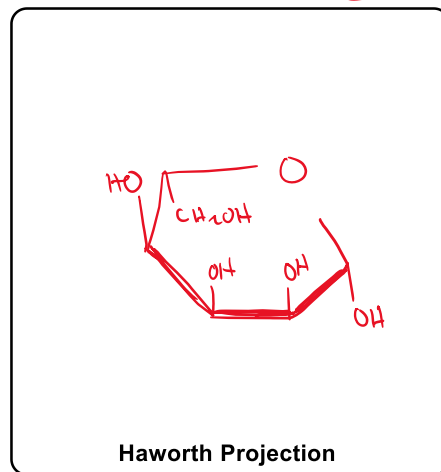
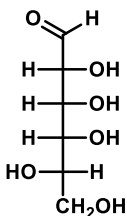
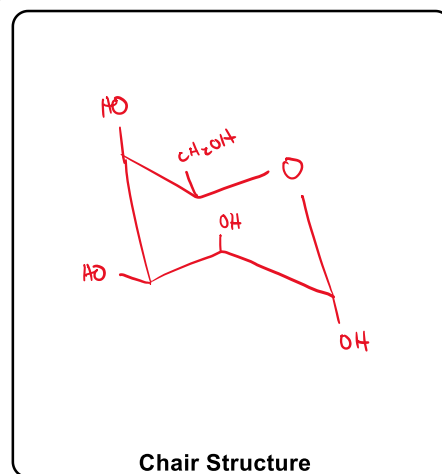
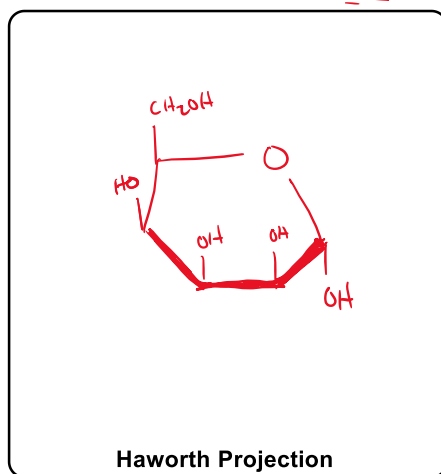


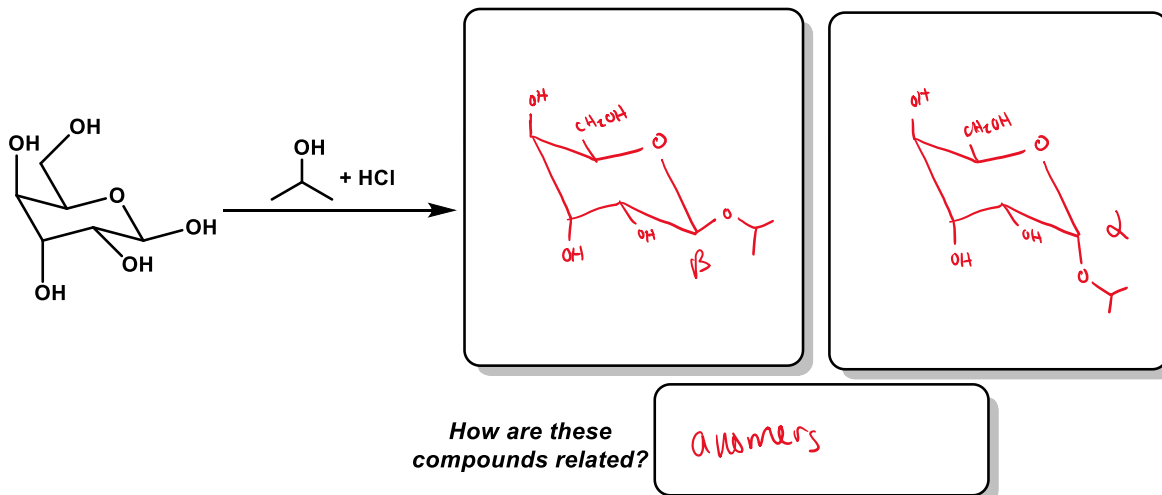
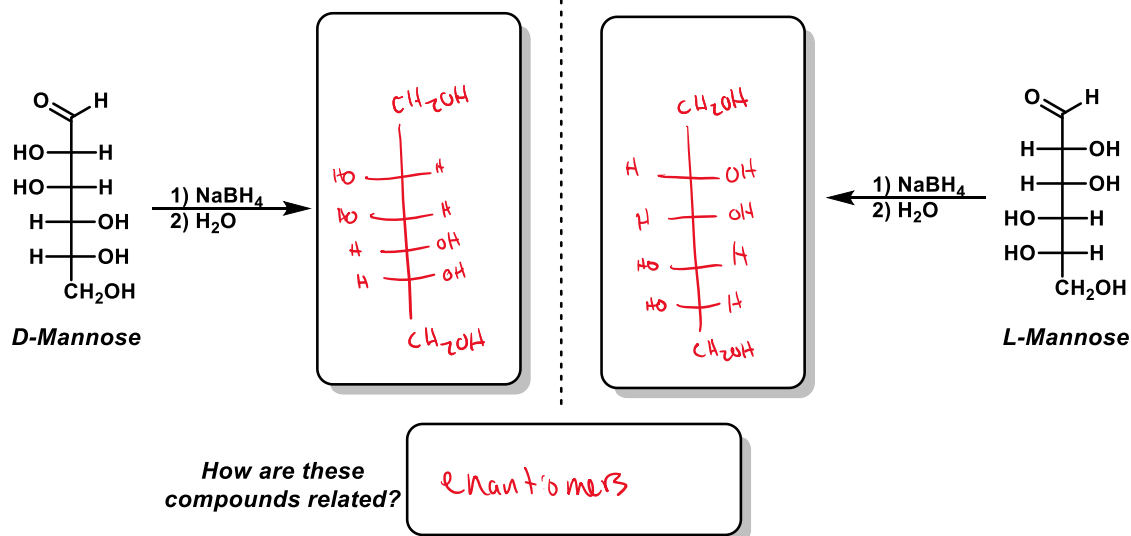
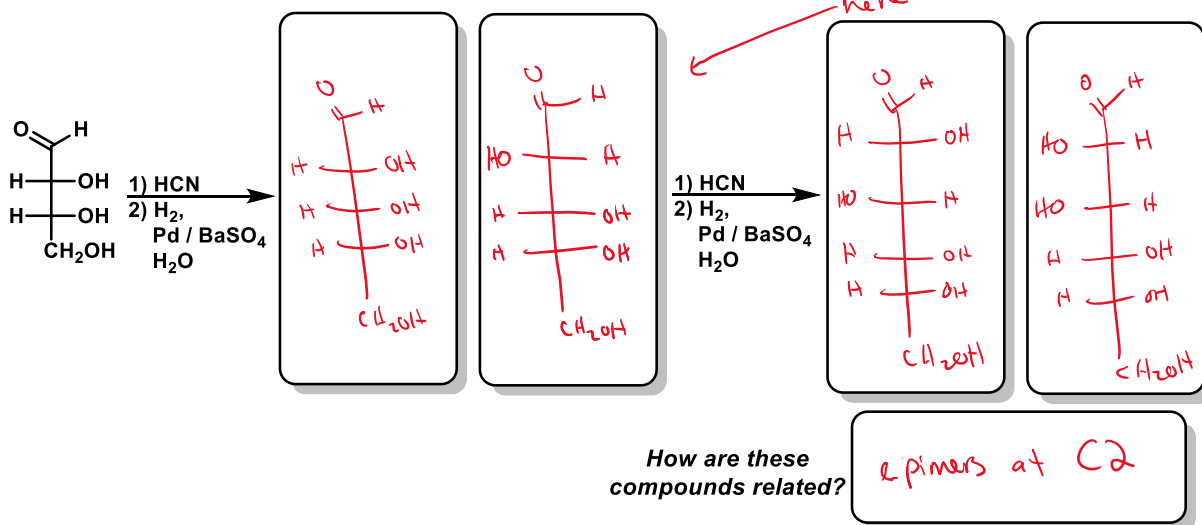
1. **Drawing Carbohydrates.** Fill in the boxes below with the correct pyranose structure of each of the following 6-carbon monosaccharides.

 α -D-AltopyranoseD-AltroseCH₂OH up β -L-AllopyranoseL-AlloseCH₂OH down α -D-Talopyranose

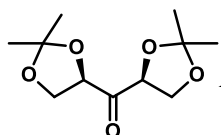
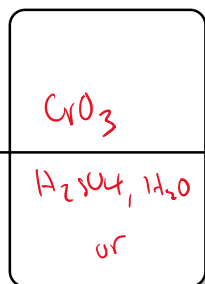
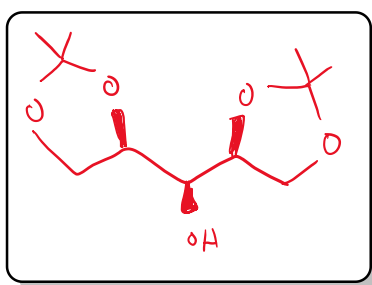
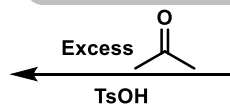
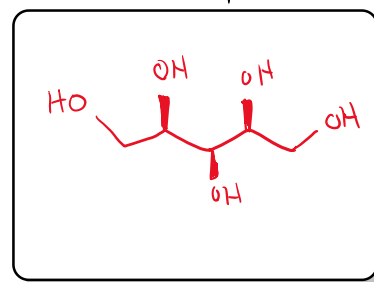
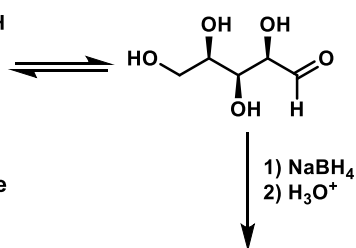
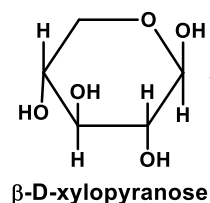
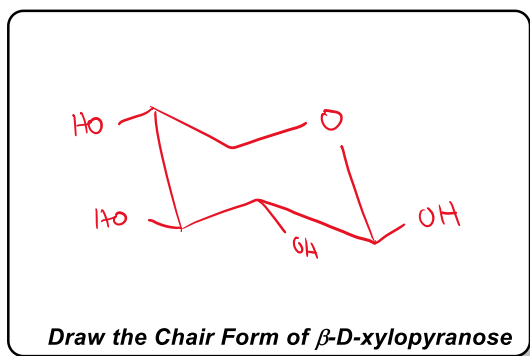
D-Talose

L-Talose

2. **Carbohydrate Reactivity.** Fill in the boxes with the correct products for each reaction. Then choose one word to describe how the compounds indicated are related.



3. **Cumulative Synthesis (with Exam 1 reactions).** Fill in the boxes below to complete the synthesis as well as the 3D chair structure of the starting material.



DMP/
DCM
or
PCC
DCM

Ch. 19
↳ other cyclic acetals involving OH in middle would be possible too, but only this one leads to this product