CONCEPT: MONOSACCHARIDES — DRAWING FISCHER PROJECTIONS

In 1891, *Emil Fischer* devised a representation known as *Fischer Projections* specifically to depict carbohydrates.

- The *most* _____ atom is always represented on _____
- It is necessary to learn how to convert Bondline to Fischer and Fischer to Bondline

- Similar to our lessons in Orgo 1, we can use the caterpillar method to convert Bondline to Fischer
 - ☐ Alternatively we can just swap the stereochemistry of all *downward* facing alcohols

Fischer to Bondline:

• Reverse caterpillar is the most reliable method. Two possible answers

PRACTICE: Convert the following monosaccharide into its Fischer representation. Is it a D or L-isomer?

PRACTICE: Convert the following monosaccharide into a bondline representation.

