**Drawing Haworth Formula**

D-Glucose exists primarily as a cyclic hemiacetal

![Diagram of D-Glucose conversion to Haworth formula](image)

**Rules for converting a Fischer projection to a Haworth formula.**
1. Draw proper sized ring: pyranose = 6-membered, furanose = 5-membered.
2. C-1 of the sugar (anomeric carbon) is always right corner of the ring. Number carbons clockwise around the ring.
3. D-sugar = CH₂OH up; L-sugar = CH₂OH down
4. α has OH opposite to CH₂OH; β has OH same side as CH₂OH
5. Other stereocenters: -OH right (R) = down; -OH left (S) = up

**Example - L-arabinose to β-furanose form**
2 = R = down
3 = S = up
4 = S = L = CH₂OH down

β-L-arabinofuranose