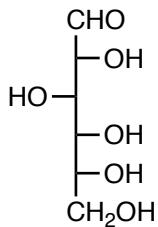


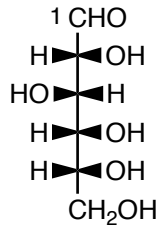
Sweet Mysteries of Sugars

D-Glucose

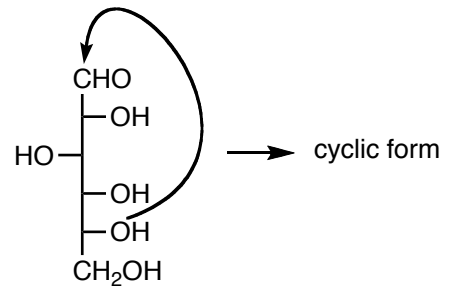
(an aldohexose)



Fischer Projection

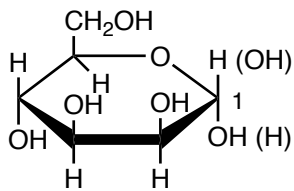


Interpretation of
Fischer Projection

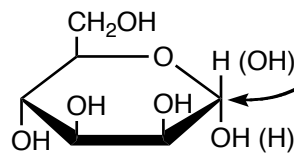


cyclic form

*the open chain form is generally not physiologically relevant
nor chemically favorable*



Haworth Style

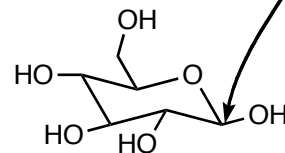


alternative Haworth Style

anomeric carbon (#1):

OH up, β -D-glucose

OH down, α -D-glucose

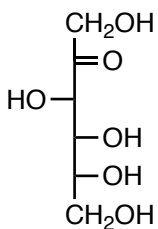


chair form - the only
realistic drawing here!

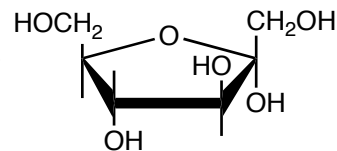
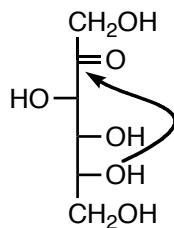
note that β -D-glucose has all groups
equatorial - this is a good reference point

D-Fructose

(a ketohexose)



Fischer Projection



yet another Haworth Style