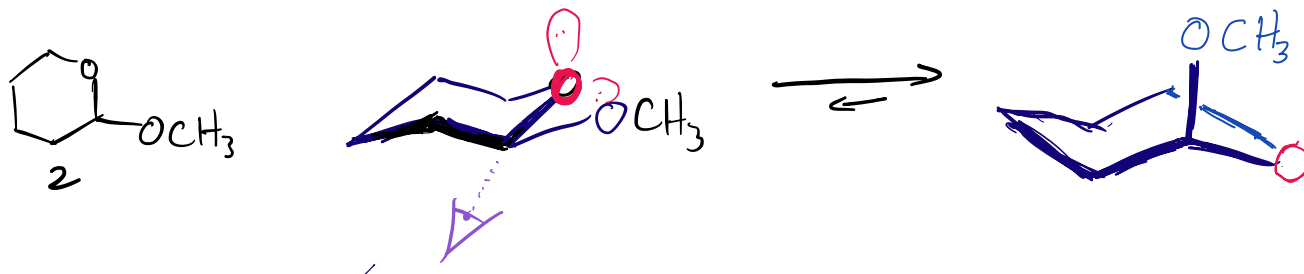


The equatorial conformer is preferred in methoxycyclohexane (**1**)



However, the axial conformer is preferred in compound **2**.



Provide an explanation for why compound **2** prefers the axial position:
(Hint: draw a Newman projection as viewed through the C-O bond for both structures)