**What if there was an additional mutation?**

After completing the activity – i.e., explaining the question “What is the molecular bases for sickling in Sickle Cell Disease?” answer the following question.

**Q. Suppose a second mutation occurs in HbS, which changes the amino acid residue Phe85 to Glu. What effect would this have on sickling of red blood cells? Explain your answer with an illustration to support your reasoning. (Use iCn3D to generate the suitable illustration(s).**