

**Figure 1.** The chain of colored boxes represent the first eight amino acids in the beta chain of hemoglobin. The sixth position in the normal beta chain has **glutamic acid**, while sickle beta chain has **valine**. This is the sole difference between the two.



<http://www.youtube.com/watch?v=PEDQoQuIhkg>

Exit Ticket 10/17/12

1. Explain the process of protein synthesis.
2. Explain how to read a codon chart.