## **Geological Maps Assignment**

Niota Quadrangle		(Refer to the Niota quadrangle to answer the following questions)
1.	Where is this geol	ogical quadrangle map located (and in what state)?
2.	What is the name – See the legend.)	of the oldest geological formation on the Niota geological quadrangle map? (Hint
3.	What is the name (Hint – See the leg	of the youngest geological formation on the Niota geological quadrangle map? gend.)
4.	Where on the ma	p is the location of the oldest formation?
5.	What is the appro	ximate strike and dip direction of the Kingsport formation near the Dupont Mine?

6.	What formation/unit is the thickest in the Niota geological quadrangle map? (Hint – See the Niota map's cross sections A-A' and B-B')
7.	What kind of fault is the Saltville fault?
8.	If a deep well were drilled at the Niota School, northwest of Niota, Tennessee, what sequence of formations would be penetrated to a depth of $^{\sim}1000'$ below sea level? (Name the top four units in order from top to bottom.) (The school is near the bottom of the map)
9.	What formation/unit is being mined at the Anderson Mine? (Anderson Mine is in the northeast section of the map)
10.	Examine the formations cropping out in the area where line A-A' crosses Rogers Creek Ridge (northwestern part of map). In that area, Ohc encircles Oh. What kind of structural fold (on a small scale) is this? (Hint – See the cross section A-A')