GLY 171: Earth Science Geology of New York State Worksheet

Name: _		 	
Spring	2011		

Use the <u>Generalized Bedrock Geology of New York State</u> map and <u>Geologic History of New York State</u> summary table to answer the following questions. Write the answer to each question in the space provided. Please be concise.

1. Find the oldest rocks in New York State. Where are they located (in what region	n of the state)?	
What type of rock(s) are they?		
How old are they in years?		
In what geologic period or era were th	ey formed?	
2. Examine the "Important Geologic Events in N summary table. In the space below list the nam in order, with the youngest on the top and olde occurred. Orogeny Name	nes of the four main orogenie	s that have shaped New York's geology
		(youngest)
		(oldest)
the state are composed of relatively undisturbe portion of the state is a jumbled mix of rocks of Explain why.		
5. During the late Triassic and early Jurassic the composed of diabase, which is a type of basalt.	e Palisades sill intruded alon	g the New York/New Jersey border. It is
What is a sill?		
What type of rock would you expect to Circle one: igneous	find forming a sill? metamorphic sedimen	ntary
Is basalt this type of rock? Circle one: YES	NO	
Tectonically what was happening to th was present)?	e east coast of New York Stat	te during this time (what tectonic setting
Is basalt the type of rock you would ex Circle one: YES	pect to find at this tectonic so	etting?