

Name: _____ Period: _____ Date: _____

Metamorphic Rocks: Changes from Heat and Pressure

Directions: Using the diagram below, your knowledge of earth science and Metamorphic Rock chart on page 7 of your ESRT, answer the following questions about metamorphic rocks.

1. *What is the relationship between rock temperature and depth beneath the surface?*

2. *Which metamorphic rock class forms at the highest temperature? _____*
3. *At what temperature does phyllite form? _____*
4. *How many kilometers beneath the Earth's surface do's gneiss occur? _____*
5. *How far below the Earth's surface would you find a rock at a temperature of 500°C?*

6. *Suppose you knew that a certain metamorphic rock begins to form at 350°C. How many kilometers below the surface might this rock temperature occur? _____*
7. *How far beneath the surface does shale metamorphose into slate? _____*