

## Metamorphic Rocks

Name \_\_\_\_\_

<http://www.learner.org/resources/series78.html>

1. The word metamorphism comes from Greek for \_\_\_\_\_ and \_\_\_\_\_
2. The two processes that change an existing rock into a metamorphic rocks are \_\_\_\_\_ and \_\_\_\_\_
3. When limestone is metamorphosed a) what happens and b) what rock does it become?  
a) \_\_\_\_\_ b) \_\_\_\_\_
4. Basalt will metamorphose into \_\_\_\_\_.
5. Metamorphism occurs between \_\_\_\_\_ °C - \_\_\_\_\_ °C (but not melted) & depths between \_\_\_\_\_ - \_\_\_\_\_ .
6. Use arrows, to DRAW the two types of pressures and name each.
7. What is a problem to be considered when building roads on metamorphic rocks?
8. What happens when limestone changes to marble?
9. Is migmatite metamorphic or igneous? Explain. (The narrator pronounces migmatite a bit strangely. Warning: Trick question.)
10. Metamorphism can force \_\_\_\_\_ & \_\_\_\_\_ out of the rock, resulting in veins.
11. In contact metamorphism \_\_\_\_\_ changes the rock and occurs over a \_\_\_\_\_ area.
12. Regional metamorphism is caused by \_\_\_\_\_ & \_\_\_\_\_ & occurs over a \_\_\_\_\_ area.
13. As regional metamorphism increases, rocks become (softer/harder), grow (finer/coarser), & get (more/less) foliation. (CIRCLE 'EM)
14. Place these four metamorphic rock names - *gneiss*, *phyllite*, *schist*, and *slate* - in the correct blanks below.  
A shale (claystone) protolith can be metamorphosed into a low-grade metamorphic rock called \_\_\_\_\_. That rock can be pressed into the rock called \_\_\_\_\_ which then can be compressed into \_\_\_\_\_ which then can become the rock named \_\_\_\_\_ .
15. What is unusual about blueschist? (That word irritates the spell checker.)
16. Could you sit a park, eat lunch, and watch a metamorphic rock form? Why or why not?
17. Write your own metamorphic question or observation based on the film or your reading from the textbook chapter.