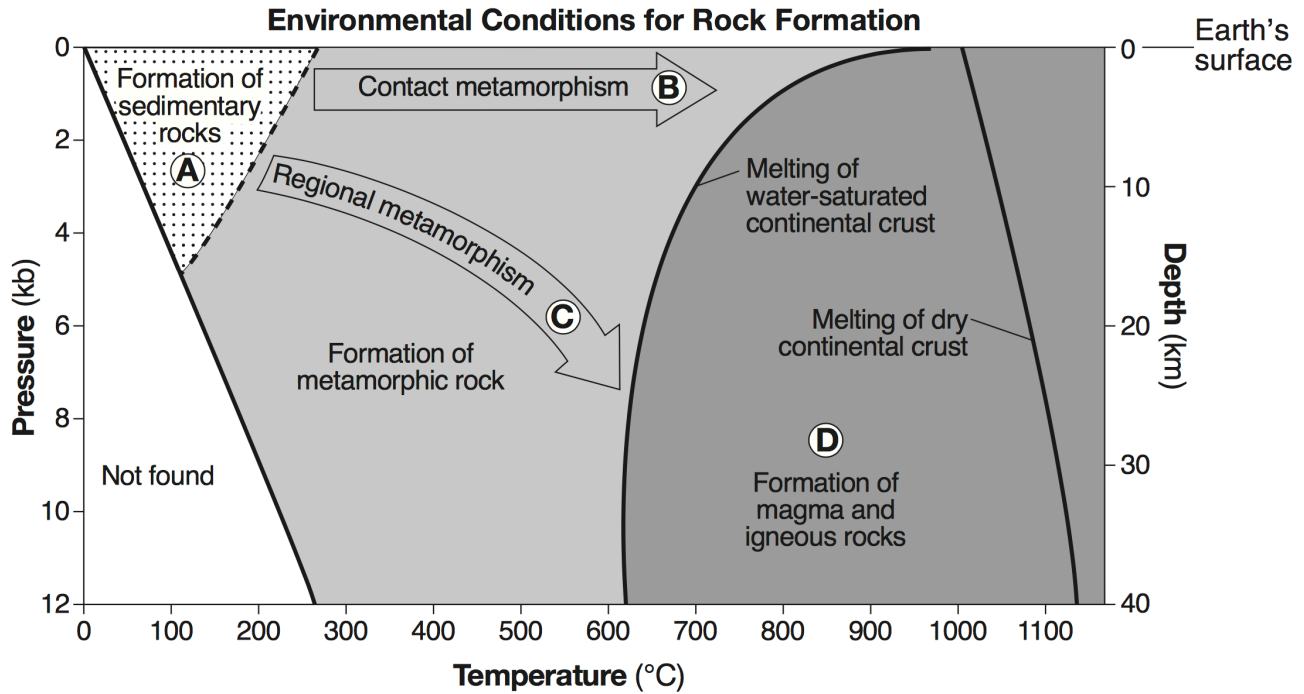


Supplemental: Metamorphic Rocks II

Base your answers to questions 1 through 4 on the graph below and on your knowledge of Earth science. The graph shows the temperature, pressure, and depth environments for the formation of the three major rock types. Pressure is shown in kilobars (kb). Letters A through D identify different environmental conditions for rock formation.



- Which rock is most likely to form directly from rock material at a depth of 30 km and a temperature of 1000°C?
 - quartzite
 - scoria
 - shale
 - granite
- Which letter represents the environmental conditions necessary to form gneiss?
 - A
 - B
 - C
 - D
- At what pressure and temperature is sand most likely to be compacted into sandstone?
 - 2 kb and 150°C
 - 6 kb and 200°C
 - 10 kb and 400°C
 - 12 kb and 900°C
- Which letter represents the environmental conditions necessary to form hornfels?
 - A
 - B
 - C
 - D