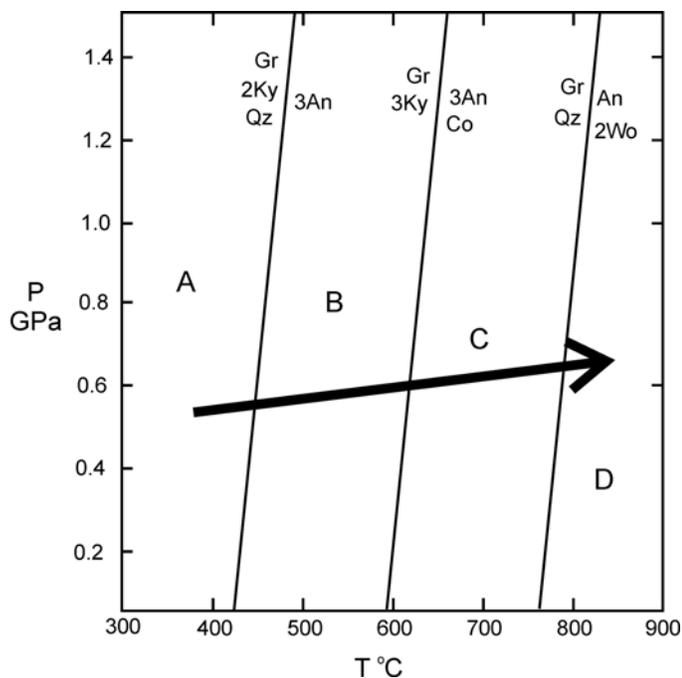
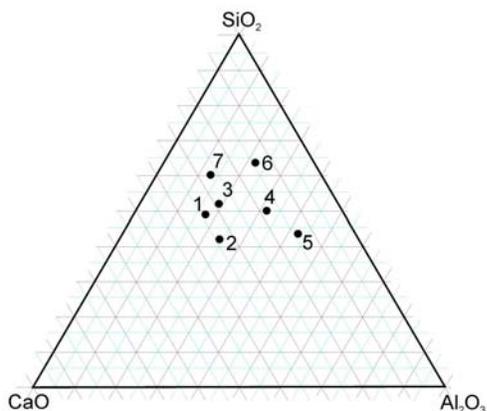


25-What Forms Where?



Just because reactions appear on a phase diagram does not mean that all rocks will be affected the same way. Depending on a rock's composition, it may or may not "see" a reaction. Consider the phase diagram and seven rocks with bulk compositions shown in the triangular diagram.



For each of the six compositions, column A (below), lists mineral assemblages and numbers of moles of each mineral that are stable in the field labeled A, above. Examine the reactions on the phase diagram, and determine what would be present if the assemblage reacted along the line shown above through zones B, C, and D? Fill in the table.

As an example, the results for composition #1 have already been filled in.

A	B	C	D
1. 4Gr + 2Ky + 3Q	3Gr + 2Qz + 3An	3Gr + 2Qz + 3An	1Gr + 5An + 4Wo
2. 3Gr + 2Ky + 1Co			
3. 2Gr + 2Ky + 3Q			
4. 1Gr + 4Ky + 1Q			
5. 1Gr + 6Ky + 2Co			
6. $\frac{1}{2}$ Gr + 2Ky + $3\frac{1}{2}$ Q			
7. $1\frac{1}{3}$ Gr + $2\frac{2}{3}$ Ky + $4\frac{1}{3}$ Q			