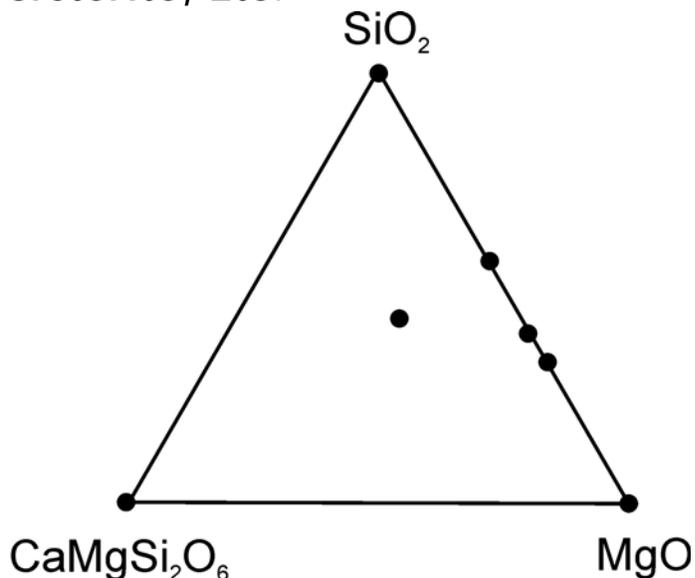


# Compatibility Diagrams: Talc-Forsterite, Etc.

On the diagrams shown at right, label the dots with the correct mineral name. You should ignore all H<sub>2</sub>O (subtract it from mineral formulas):

- quartz SiO<sub>2</sub>
- forsterite Mg<sub>2</sub>SiO<sub>4</sub>
- talc Mg<sub>3</sub>Si<sub>4</sub>O<sub>10</sub>(OH)<sub>2</sub>
- serpentine Mg<sub>3</sub>Si<sub>2</sub>O<sub>5</sub>(OH)<sub>4</sub>
- diopside CaMgSi<sub>2</sub>O<sub>6</sub>
- brucite Mg(OH)<sub>2</sub>
- tremolite Ca<sub>2</sub>Mg<sub>5</sub>Si<sub>8</sub>O<sub>22</sub>(OH)<sub>2</sub>



Now, on the diagram below, finish the compatibility diagrams in each of the four fields - making sure that tie lines are correct, etc. I helped by putting in some lines and by eliminating dots for minerals that are not stable in some places.

