

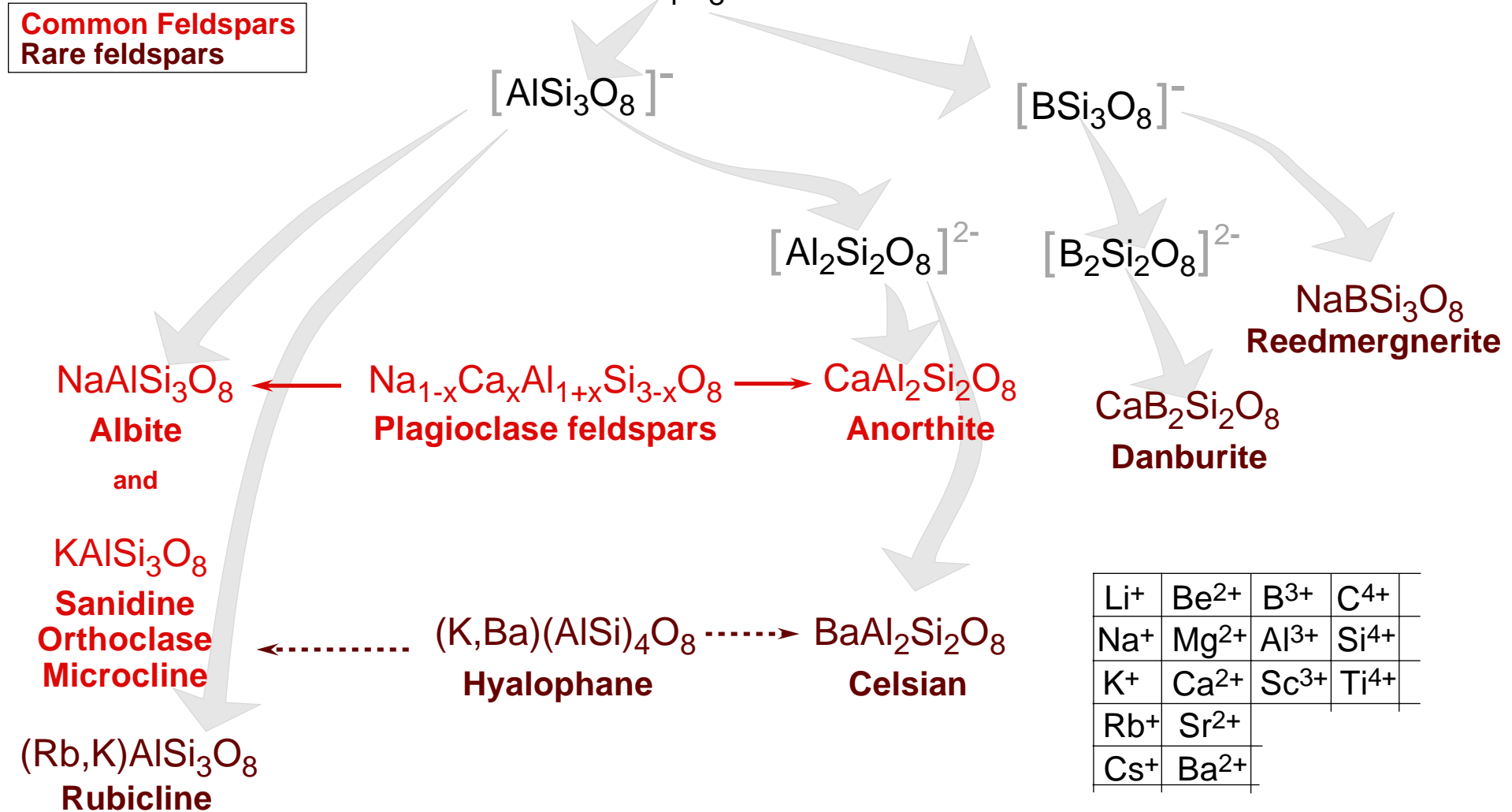
Feldspars and feldspathoids V: a summary of the feldspars

Feldspars are tectosilicate minerals in which a 3+ cation substitutes for Si^{4+} and a 1+ or 2+ cation supplies the positive charge left unbalanced by the 3+ - for - 4+ substitution. Pages I to IV of

this series worked through the possible substitutions and minerals, and this page provides a summary.

Let's begin with the chemical formula for quartz, the most familiar silica mineral.

Let's quadruple that formula.



Li^+	Be^{2+}	B^{3+}	C^{4+}
Na^+	Mg^{2+}	Al^{3+}	Si^{4+}
K^+	Ca^{2+}	Sc^{3+}	Ti^{4+}
Rb^+	Sr^{2+}		
Cs^+	Ba^{2+}		