Your task today: This is the list of minerals that you will be responsible for the next lab. Warning: you are probably not going to like these minerals all that much. While some are pretty simple to identify (e.g., rhodonite, spodumene), most are not. They exhibit considerable variety of characteristics which unfortunately overlap. Many are green.

Next Tuesday (1:00-1:20 PM): Mineral lab quiz 6 (Inosilicates).

<table>
<thead>
<tr>
<th>Mineral</th>
<th>Formula</th>
<th>System</th>
<th>Specimen Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pyroxenes</strong></td>
<td></td>
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<tr>
<td>Aegirine</td>
<td>NaFeSi$_2$O$_6$</td>
<td>Monoclinic</td>
<td>f, f, g</td>
</tr>
<tr>
<td>Augite</td>
<td>(Ca,Na)(Mg,Fe,Al,Ti)(Si,Al)$_2$O$_6$</td>
<td>Monoclinic</td>
<td>p, f, f, g(x4)</td>
</tr>
<tr>
<td>Diopside</td>
<td>CaMgSi$_2$O$_6$</td>
<td>Monoclinic</td>
<td>g(x6)</td>
</tr>
<tr>
<td>Enstatite/Bronzite</td>
<td>Mg$_3$Si$_2$O$_6$</td>
<td>Orthorhombic</td>
<td>g-g</td>
</tr>
<tr>
<td>Ferrosilite</td>
<td>(Fe,Mg)$_2$Si$_2$O$_6$</td>
<td>Orthorhombic</td>
<td>f</td>
</tr>
<tr>
<td>Hedenbergite</td>
<td>CaFeSi$_2$O$_6$</td>
<td>Monoclinic</td>
<td>g-g</td>
</tr>
<tr>
<td>Hypersthene</td>
<td>(Mg,Fe)$_2$Si$_2$O$_6$</td>
<td>Orthorhombic</td>
<td>f,f</td>
</tr>
<tr>
<td>Jadeite</td>
<td>Na(Al,Fe)Si$_2$O$_6$</td>
<td>Monoclinic</td>
<td>f, g-g</td>
</tr>
<tr>
<td>Spodumene</td>
<td>LiAlSi$_2$O$_6$</td>
<td>Monoclinic</td>
<td>f, g(x3)</td>
</tr>
<tr>
<td><strong>Amphiboles</strong></td>
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<tr>
<td>Actinolite</td>
<td>Ca$_3$(Mg,Fe)$_5$Si$<em>8$O$</em>{22}$(OH)$_2$</td>
<td>Monoclinic</td>
<td>g(x5)</td>
</tr>
<tr>
<td>Anthophyllite-Gedrite</td>
<td>Mg$_3$Si$<em>8$O$</em>{22}$(OH)$_2$–Mg$_5$Al$_2$(Si$_8$Al$<em>2$O$</em>{22}$)(OH)$_2$</td>
<td>Orthorhombic</td>
<td>f, f, g(x4)</td>
</tr>
<tr>
<td>Cummingtonite</td>
<td>Mg$_3$Si$<em>8$O$</em>{22}$(OH)$_2$</td>
<td>Monoclinic</td>
<td>p, g</td>
</tr>
<tr>
<td>Glaucophane</td>
<td>Na$_3$(Mg$_3$Al$_2$)Si$<em>8$O$</em>{22}$(OH)$_2$</td>
<td>Monoclinic</td>
<td>f(x3), g(x4)</td>
</tr>
<tr>
<td>Grunerite</td>
<td>Fe$_7$Si$<em>8$O$</em>{22}$(OH)$_2$</td>
<td>Monoclinic</td>
<td>g-g</td>
</tr>
<tr>
<td>Hornblende</td>
<td>(Ca,Na,K)$_2$,(Mg,Fe,Al)$_2$Si$_8$(Si,Al)$<em>2$O$</em>{22}$(OH)$_2$</td>
<td>Monoclinic</td>
<td>f,f, g(x5)</td>
</tr>
<tr>
<td>Riebekite</td>
<td>Na$_2$Fe$^{3+}$Fe$^{3+}$Si$<em>8$O$</em>{22}$(OH)$_2$</td>
<td>Monoclinic</td>
<td>p, g</td>
</tr>
<tr>
<td>Tremolite</td>
<td>Ca$_2$Mg$_5$Si$<em>8$O$</em>{22}$(OH)$_2$</td>
<td>Monoclinic</td>
<td>f, g-g</td>
</tr>
<tr>
<td><strong>Others Pyroxenoids and others</strong></td>
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<tr>
<td>Howlite</td>
<td>Ca$_2$B$<em>5$SiO$</em>{9}$(OH)</td>
<td>Monoclinic</td>
<td>g</td>
</tr>
<tr>
<td>Pectolite</td>
<td>NaCa$_2$Si$_3$O$_6$(OH)</td>
<td>Triclinic</td>
<td>g(x3)</td>
</tr>
<tr>
<td>Rhodonite</td>
<td>(Mn,Fe,Mg,Ca)SiO$_3$</td>
<td>Triclinic</td>
<td>f, g-g</td>
</tr>
<tr>
<td>Wollastonite</td>
<td>CaSiO$_3$</td>
<td>Triclinic</td>
<td>f, g(x5)</td>
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</tbody>
</table>