***The Case of the Missing Balances***

**Chemical Reference Sheet**

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| **Compound** | **Melting Point** | **Solubility** | **Flame Color** | **Conductivity** |
| Sugar(C12H22O11) | 80-110 C | Yes | no change | No |
| Salt (NaCl) | 775-815 C | Yes | orange | Yes |
| Fertilizer(KCl) | 760-785 C | Yes | purple | Yes |
| Chalk (CaCO3) | 825-1560 C | No | no change | No |
| Boric acid(H3BO3) | 140-180 C | No | green | Yes |