

## 6.21.1: Lecture Demonstrations

---

Add small pieces of Li, K, Na to water, with universal indicator if desired, to show relative activities.

Hazards: K forms a peroxide coating that may explode when cut with a knife.

### Activities of the Halogens<sup>[1][2][3][4]</sup>

Displace I, Br from NaI and NaBr solutions with Cl<sub>2</sub> (extract halogens into nonpolar solvent like hexane to make them more visible)<sup>[5]</sup>.

Show that I<sub>2</sub> does not displace Cl<sub>2</sub> from NaCl, etc.

### Reaction of Antimony with Halogens<sup>[6]</sup>

#### References

1. Furse, A. J. Chem. Educ., 1947, 24 (9), p 445
2. J. Chem. Educ., 1969, 46 (2), p A108
3. Alyea, H. J. Chem. Educ., 1969, 46 (2), p A108
4. J. Chem. Educ., 1933, 10 (10), p 637
5. J. Chem. Educ., 1969, 46 (2), p A108
6. J. Chem. Educ., 1969, 46 (2), p A108

---

This page titled [6.21.1: Lecture Demonstrations](#) is shared under a [CC BY-NC-SA 4.0](#) license and was authored, remixed, and/or curated by [Ed Vitz](#), [John W. Moore](#), [Justin Shorb](#), [Xavier Prat-Resina](#), [Tim Wendorff](#), & [Adam Hahn](#).