

### Word problem practice

Write the complete, balanced equation for the problems below:

1. Iron (III) chloride reacts with sodium hydroxide, producing iron (III) hydroxide and sodium chloride.
2. Carbon disulfide reacts with oxygen gas, producing carbon dioxide and sulfur dioxide.
3. Zinc and hydrogen sulfate react to produce hydrogen gas and zinc sulfate.
4. Hydrogen sulfide gas reacts with manganese (II) chloride to produce hydrogen chloride and manganese (II) sulfide.
5. When mothballs (chemical name: naphthalene; formula:  $C_{10}H_8$ ) burn with oxygen, carbon dioxide and water are produced.

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