

Name:

Single Replacement Reactions Worksheet

Predict the products and balance the following single replacement reactions. If no reaction occurs write N.R.

For transition metals use the following charges:

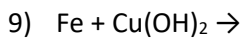
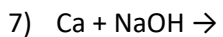
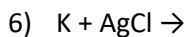
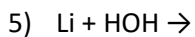
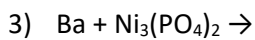
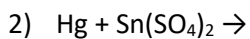
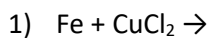
Iron: Fe^{3+}

Mercury: Hg^{2+}

Lead: Pb^{4+}

Copper: Cu^{1+}

Gold: Au^{3+}



Write the reactions and predict the products of each of the following single replacement reactions. Balance all reactions. If no reaction occurs write N.R.

For transition metals use the following charges:

Iron: Fe^{3+}

Mercury: Hg^{2+}

Lead: Pb^{4+}

Copper: Cu^{1+}

Gold: Au^{3+}

- 1) Lead II chloride + magnesium
- 2) Barium nitrate + zinc
- 3) Potassium + tin IV nitrate
- 4) Copper + silver nitrate
- 5) Sodium phosphate + potassium
- 6) Gold + hydrogen chloride
- 7) Magnesium + aluminum hydroxide
- 8) Iron + copper II sulfate
- 9) Iron + nickel II iodide
- 10) Sodium permanganate + calcium
- 11) Hydrogen chloride + zinc
- 12) Aluminum + iron II dichromate