

### CHEM 0011 Reaction Worksheet:

For the following reaction, predict:

- (i) Whether a reaction will occur, if so, do (ii) to (vii).
  - (ii) What type of reaction is it?
  - (iii) Write the balanced chemical reaction.
  - (iv) Write the net ionic reaction.
  - (v) Identify the spectator ion(s).
  - (vi) Identify the species oxidized.
  - (vii) Identify the species reduced.
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1. Copper is brought into contact with a silver nitrate solution.
2. Liquid bromine is brought into contact with a sodium chloride solution.
3. Calcium is brought into contact with water.  
(Hint: A reaction will occur. Hydrogen gas is one of the products.)
4. Chlorine gas is brought into contact with a sodium bromide solution.
5. An aqueous solution of iodine is brought into contact with a sodium bromide solution.
6. Iron is brought into contact with a copper (II) nitrate solution.
7. Liquid bromine is brought into contact with a sodium iodide solution.
8. Zinc is brought into contact with hydrochloric acid.
9. An aqueous solution of iodine is brought into contact with a sodium chloride solution.
10. Chlorine gas is brought into contact with a sodium iodide solution.