

Skill Practice 81

Oxidation-Reduction Practice

Name: _____

Date: _____

Hour: _____

- _____ 1. The substance in a redox reaction that accepts electrons. a. oxidation number
- _____ 2. The gain of electrons. b. reducing agent
- _____ 3. A chemical change that occurs when electrons are transferred from one atom to another. c. oxidizing agent
- _____ 4. The substance in a redox reaction that loses electrons. d. reduction
- _____ 5. The gain of oxygen. e. oxidation
- _____ 6. The loss of electrons. f. redox reaction
- _____ 7. For many substances, this equals the charge.
8. Assign oxidation numbers to each atom in the following reactions (No need to balance the reactions):
- a) $2 \text{Ca} + \text{O}_2 \rightarrow 2 \text{CaO}$
- b) $\text{Li}_2\text{O} + \text{N}_2 \rightarrow \text{Li}_3\text{N} + \text{O}_2$
- c) $\text{HNO}_2 \rightarrow \text{H}_2 + \text{NO}_2$
9. Identify the oxidizing agent in the reactions in parts a and b from question 8.
- a) _____ b) _____
10. Is the following reaction a redox reaction? Explain. $\text{NaCl} + \text{AgNO}_3 \rightarrow \text{NaNO}_3 + \text{AgCl}$