SCH3U0: Chemistry, Grade 11, University Level Chemical Reactions Synthesis and Decomposition Reactions

Predicting Reactions Worksheet

For each reactant side of the chemical equation that is given:

a) State the reaction type;b) Complete the word equation;c) Show a balanced chemical equation.
1. lithium + nitrogen →
Reaction Type:
Balanced chemical equation:
$\begin{array}{c} \Delta \\ \text{2. sodium chlorate} \rightarrow \end{array}$
Reaction Type:
Balanced chemical equation:
3. calcium oxide + water \rightarrow
Reaction Type:
Balanced chemical equation:
4. copper + fluorine → copper (II) fluoride
Reaction Type:
Balanced chemical equation:
5. potassium nitrate \rightarrow
Reaction Type:
Balanced chemical equation:

6. sodium oxide + water →	
Reaction Type:	_
Balanced chemical equation:	
7. carbon dioxide + water →	
Reaction Type:	_
Balanced chemical equation:	
8. magnesium oxide + water →	
Reaction Type:	_
Balanced chemical equation:	
9. barium carbonate \rightarrow	
Reaction Type:	_
Balanced chemical equation:	
10. zinc + chlorine →	
Reaction Type:	_
Balanced chemical equation:	
11. hydrogen + nitrogen →	
Reaction Type:	_
Balanced chemical equation:	
12. calcium hydroxide →	
Reaction Type:	_
Balanced chemical equation:	
13. lithium bicarbonate \rightarrow	
Reaction Type:	_
Balanced chemical equation:	