Name: Date:

Chemistry Reactions

Balance the following chemical equations.

1. 1 $Ca_3(PO_4)_2$ + 2 H_2SO_4 → 2 $CaSO_4$ + 1 $Ca(H_2PO_4)_2$

2. 1 CH_4 + 2 O_2 → 1 CO_2 + 2 H_2O

3. 1 PCl_5 + 4 H_2O → 1 H_3PO_4 + 5 HCl

4. 2 H_2SO_4 + 1 $Pb(OH)_4$ → 1 $Pb(SO_4)_2$ + 4 H_2O

5. 1 Xe + 3 F_2 → 1 XeF_6

6. 2 BF_3 + 3 Li_2SO_3 → 1 $B_2(SO_3)_3$ + 6 LiF

7. 2 KNO_3 + 1 H_2CO_3 → 1 K_2CO_3 + 2 HNO_3

8. 1 Be_2C + 4 H_2O → 2 $Be(OH)_2$ + 1 $CH_4(aq)$

9. 2 NH_4NO_3 → 2 N_2 + 1 O_2 + 4 H_2O

10. 1 V_2O_5 + 6 HCl → 2 $VOCl_3$ + 3 H_2O