

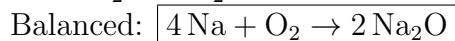
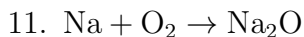
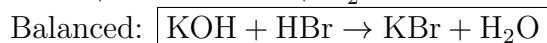
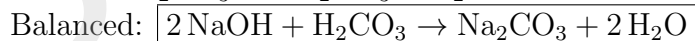
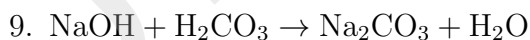
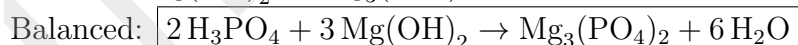
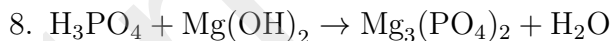
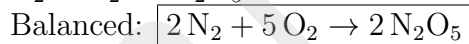
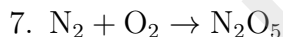
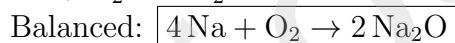
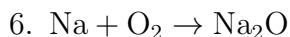
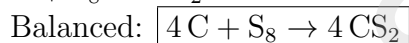
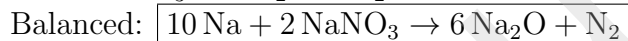
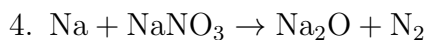
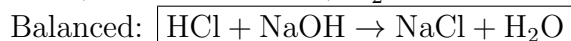
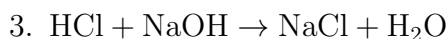
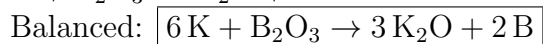
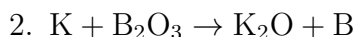
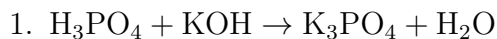
CHM101 ASSIGNMENT

Uniosun Buzz and Uniosun Info

Balancing Equations

Balance the following chemical equations:

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12. $\text{Al}(\text{OH})_3 + \text{H}_2\text{CO}_3 \rightarrow \text{Al}_2(\text{CO}_3)_3 + \text{H}_2\text{O}$
Balanced: $2 \text{Al}(\text{OH})_3 + 3 \text{H}_2\text{CO}_3 \rightarrow \text{Al}_2(\text{CO}_3)_3 + 6 \text{H}_2\text{O}$
13. $\text{Al} + \text{S}_8 \rightarrow \text{Al}_2\text{S}_3$
Balanced: $16 \text{Al} + 3 \text{S}_8 \rightarrow 8 \text{Al}_2\text{S}_3$
14. $\text{Cs} + \text{N}_2 \rightarrow \text{Cs}_3\text{N}$
Balanced: $6 \text{Cs} + \text{N}_2 \rightarrow 2 \text{Cs}_3\text{N}$
15. $\text{Mg} + \text{Cl}_2 \rightarrow \text{MgCl}_2$
Balanced: $\text{Mg} + \text{Cl}_2 \rightarrow \text{MgCl}_2$
16. $\text{Rb} + \text{RbNO}_3 \rightarrow \text{Rb}_2\text{O} + \text{N}_2$
Balanced: $10 \text{Rb} + 2 \text{RbNO}_3 \rightarrow 6 \text{Rb}_2\text{O} + \text{N}_2$
17. $\text{C}_6\text{H}_6 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$
Balanced: $2 \text{C}_6\text{H}_6 + 15 \text{O}_2 \rightarrow 12 \text{CO}_2 + 6 \text{H}_2\text{O}$
18. $\text{N}_2 + \text{H}_2 \rightarrow \text{NH}_3$
Balanced: $\text{N}_2 + 3 \text{H}_2 \rightarrow 2 \text{NH}_3$
19. $\text{C}_{10}\text{H}_{22} + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$
Balanced: $2 \text{C}_{10}\text{H}_{22} + 31 \text{O}_2 \rightarrow 20 \text{CO}_2 + 22 \text{H}_2\text{O}$
20. $\text{Al}(\text{OH})_3 + \text{HBr} \rightarrow \text{AlBr}_3 + \text{H}_2\text{O}$
Balanced: $\text{Al}(\text{OH})_3 + 3 \text{HBr} \rightarrow \text{AlBr}_3 + 3 \text{H}_2\text{O}$
21. $\text{CH}_3\text{CH}_2\text{CH}_3 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$
Balanced: $\text{C}_3\text{H}_8 + 5 \text{O}_2 \rightarrow 3 \text{CO}_2 + 4 \text{H}_2\text{O}$
22. $\text{C}_5\text{H}_8 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$
Balanced: $\text{C}_5\text{H}_8 + 7 \text{O}_2 \rightarrow 5 \text{CO}_2 + 4 \text{H}_2\text{O}$
23. $\text{Li} + \text{AlCl}_3 \rightarrow \text{LiCl} + \text{Al}$
Balanced: $3 \text{Li} + \text{AlCl}_3 \rightarrow 3 \text{LiCl} + \text{Al}$
24. $\text{C}_2\text{H}_6 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$
Balanced: $2 \text{C}_2\text{H}_6 + 7 \text{O}_2 \rightarrow 4 \text{CO}_2 + 6 \text{H}_2\text{O}$
25. $\text{NH}_4\text{OH} + \text{H}_3\text{PO}_4 \rightarrow (\text{NH}_4)_3\text{PO}_4 + \text{H}_2\text{O}$
Balanced: $3 \text{NH}_4\text{OH} + \text{H}_3\text{PO}_4 \rightarrow (\text{NH}_4)_3\text{PO}_4 + 3 \text{H}_2\text{O}$
26. $\text{Rb} + \text{P} \rightarrow \text{Rb}_3\text{P}$
Balanced: $3 \text{Rb} + \text{P} \rightarrow \text{Rb}_3\text{P}$
27. $\text{CH}_4 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$
Balanced: $\text{CH}_4 + 2 \text{O}_2 \rightarrow \text{CO}_2 + 2 \text{H}_2\text{O}$

28. $\text{Al}(\text{OH})_3 + \text{H}_2\text{SO}_4 \rightarrow \text{Al}_2(\text{SO}_4)_3 + \text{H}_2\text{O}$
Balanced: $2 \text{Al}(\text{OH})_3 + 3 \text{H}_2\text{SO}_4 \rightarrow \text{Al}_2(\text{SO}_4)_3 + 6 \text{H}_2\text{O}$
29. $\text{Na} + \text{Cl}_2 \rightarrow \text{NaCl}$
Balanced: $2 \text{Na} + \text{Cl}_2 \rightarrow 2 \text{NaCl}$
30. $\text{Rb} + \text{S}_8 \rightarrow \text{Rb}_2\text{S}$
Balanced: $16 \text{Rb} + \text{S}_8 \rightarrow 8 \text{Rb}_2\text{S}$
31. $\text{H}_3\text{PO}_4 + \text{Ca}(\text{OH})_2 \rightarrow \text{Ca}_3(\text{PO}_4)_2 + \text{H}_2\text{O}$
Balanced: $2 \text{H}_3\text{PO}_4 + 3 \text{Ca}(\text{OH})_2 \rightarrow \text{Ca}_3(\text{PO}_4)_2 + 6 \text{H}_2\text{O}$
32. $\text{NH}_3 + \text{HCl} \rightarrow \text{NH}_4\text{Cl}$
Balanced: $\text{NH}_3 + \text{HCl} \rightarrow \text{NH}_4\text{Cl}$
33. $\text{Li} + \text{H}_2\text{O} \rightarrow \text{LiOH} + \text{H}_2$
Balanced: $2 \text{Li} + 2 \text{H}_2\text{O} \rightarrow 2 \text{LiOH} + \text{H}_2$
34. $\text{Ca}_3(\text{PO}_4)_2 + \text{SiO}_2 + \text{C} \rightarrow \text{CaSiO}_3 + \text{CO} + \text{P}$
Balanced: $\text{Ca}_3(\text{PO}_4)_2 + 3 \text{SiO}_2 + 5 \text{C} \rightarrow 3 \text{CaSiO}_3 + 5 \text{CO} + 2 \text{P}$
35. $\text{NH}_3 + \text{O}_2 \rightarrow \text{N}_2 + \text{H}_2\text{O}$
Balanced: $4 \text{NH}_3 + 3 \text{O}_2 \rightarrow 2 \text{N}_2 + 6 \text{H}_2\text{O}$
36. $\text{FeS}_2 + \text{O}_2 \rightarrow \text{Fe}_2\text{O}_3 + \text{SO}_2$
Balanced: $4 \text{FeS}_2 + 11 \text{O}_2 \rightarrow 2 \text{Fe}_2\text{O}_3 + 8 \text{SO}_2$
37. $\text{C} + \text{SO}_2 \rightarrow \text{CS}_2 + \text{CO}$
Balanced: $5 \text{C} + 2 \text{SO}_2 \rightarrow \text{CS}_2 + 4 \text{CO}$