bananalearn

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Balancing chemical equations for Class 10

Practice worksheet - Science · Grade 10

Name: _____ Date: _____

Show your working. Answers are not included in this copy.

Try each task before opening its answer. Give an example or reason, not only a label.

Write an answer and your reason before opening the explanation. Check the reasoning as well as the final answer.

1. How many H atoms are represented by $3H_2O$?

2. May H_2O be changed to H_2O_2 to balance oxygen?

3. Balance $Mg + O_2 \rightarrow MgO$.

4. Balance $N_2 + H_2 \rightarrow NH_3$.

5. Balance $Al + Cl_2 \rightarrow AlCl_3$.

6. Balance $KClO_3 \rightarrow KCl + O_2$.

7. Balance $Zn + HCl \rightarrow ZnCl_2 + H_2$.

8. Balance $CH_4 + O_2 \rightarrow CO_2 + H_2O$.

Practice continued

9. Balance $Na_2CO_3 + HCl \rightarrow NaCl + H_2O + CO_2$.

10. Simplify $4H_2 + 2O_2 \rightarrow 4H_2O$.

11. Is $C + O_2 \rightarrow CO_2$ already balanced?

12. Do equal total atom counts guarantee balance?

13. If one coefficient is 1/2, what must you multiply to remove it?

14. Does balancing prove a reaction is safe to perform?