

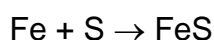
Balancing the equation see-saw

A class has handed in their homework. The students had to balance equations. Now, as their teacher, you have to mark the homework. Unfortunately, you find that you have misplaced your answer sheet. It seems like you have to balance the equations yourself! Remember to show all your working.

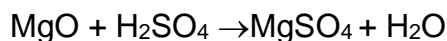
Here is a copy of the worksheet.

Equations to balance

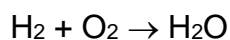
(i) iron + sulfur → iron(II) sulfide



(ii) magnesium oxide + sulfuric acid → magnesium sulfate + water



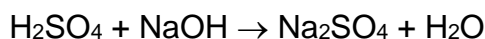
(iii) hydrogen + oxygen → water



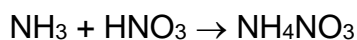
(iv) calcium carbonate + sulfuric acid → calcium sulfate + carbon dioxide + water



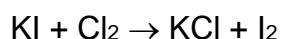
(v) sulfuric acid + sodium hydroxide → sodium sulfate + water



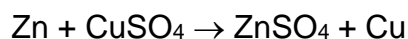
(vi) ammonia + nitric acid → ammonium nitrate



(vii) potassium iodide + chlorine → potassium chloride + iodine



(viii) zinc + copper(II) sulfate → zinc sulfate + copper



(ix) aluminium + iron(III) oxide → aluminium oxide + iron

