How to balance Equations

Steps

1 Inspection Just look at
If not
W 'te down all the elements
for the reducts + reactants
(Keep the order both side

A A
O → O

o tar the left f
the # f Atoms Are maller
change the coefficient #)
f the le compound
then change the # f Atoms
below the equatio
*If is compou d
change both elements

Move to the right changing
the Coeffic ts

Go over + Chang the
products

You Ar BALANCED whe
1 side th othe

Check to se 'f the
Coeffic ts CAN be
educed

$Cu + S \rightarrow Cu_2S$

$2Cu + S > Cu_2$

2 $A + O_2 \rightarrow __ Al_2O_3$

reactants products

Al A 2

O 2 O

3 $2A + O_2 \rightarrow Al_2O_3$

A A 2

~~2~~ 2 O 3

O 2

Al les th he

we chang the coefficient to
2 The chang the #
Atom below

4 $2A + 2O_2 \rightarrow Al_2O_3$

Al – ~~2~~ 2 A 2

O ~~2~~ 4 O 3

5 $2Al \; 2O_2 \rightarrow 2 \; Al_2O_3$

Al ~~2~~ 2 Al ~~2~~ 4

O ~~2~~ 4 O ~~3~~ 6

6. $4Al \; 3O_2 \rightarrow 2 \; Al_2O_3$

Al ~~2~~ ~~4~~ 4 A ~~2~~ 4

O ~~2~~ ~~4~~ 6 O ~~3~~ 6