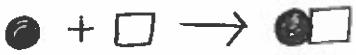
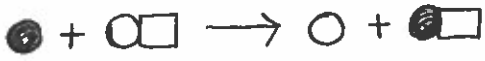
hydrogen + oxygen → water	1 reactant → 2 products
AB → A + B	$AlCl_3$ → Al + 3Cl
$2Na + Cl_2$ → 2NaCl	
magnesium oxide → magnesium + oxygen	2 reactants → 1 product
water → hydrogen + oxygen	A + B → AB
$3Cl_2 + 2Al$ → $2AlCl_3$	magnesium + oxygen → magnesium oxide
	$2NaCl$ → $2Na + Cl_2$
$3AgNO_3 + H_3PO_4$ → $3HNO_3 + Ag_3PO_4$	$2Al + 3ZnCl_2$ → $3Zn + 2AlCl_3$
element + compound → different element + compound	
A + BC → B + AC	barium sulfide + potassium iodide → potassium sulfide + barium iodide
silver nitrate + sodium chloride → sodium nitrate + silver chloride	ZnO + Ca → CaO + Zn
	AB + CD → AD + CB
$ZnCl_2 + 2NH_4OH$ → $2NH_4Cl + Zn(OH)_2$	compound + compound → different compound + different compound
fluorine + calcium bromide → bromine + calcium fluoride	chlorine + sodium iodide → sodium chloride + iodine