REACTANT(S)			REACTION TYPE	PRODUCT(S)
ONE COMPOUND	BINARY COMPOUND		DECOMPOSITION	2 ELEMENTS
	TERNARY COMPOUND	METAL CARBONATE		METAL OXIDE + CO_2
		H_2CO_3		$H_2O + CO_2$
		METAL SULFITE		METAL OXIDE + SO_2
		H_2SO_3		$H_2O + SO_2$
TWO ELEMENTS	METAL + NONMETAL		COMBINATION	BINARY IONIC COMPOUND
	2 NONMETALS			BINARY MOLECULAR COMPOUND
ELEMENT & COMPOUND (inorganic compound)	NONMETAL ELEMENT + COMPOUND $MX^A + X^B_2$		SINGLE REPLACEMENT	$MX^B + X^A_2$
	METAL ELEMENT + COMPOUND $M^A + M^BX$			$M^B + M^AX$
ELEMENT & COMPOUND (organic compound)	O_2 + ORGANIC COMPOUND		COMBUSTION	$CO_2 + H_2O$
TWO COMPOUNDS	both compounds belong to one of these classes: $AB + CD$ SALT, METAL HYDROXIDE, ACID		DOUBLE REPLACEMENT (switch last names)	$AD + CB$
	2 OXIDES	METAL OXIDE + CO_2	COMBINATION	METAL CARBONATE
		METAL OXIDE + SO_2		METAL SULFITE
		METAL OXIDE + H_2O		METAL HYDROXIDE
		$H_2O + CO_2$		H_2CO_3
		$H_2O + SO_2$		H_2SO_3