I. Fill in the blanks with the most appropriate term:

Α		chemico	al		equation			tells the story of a chemic					ical
reactio	on	Reactants			are the starti			ng substances in the reaction					
while _		products		0	are the new			substances that o			are formed. The		
large	num	bers	in	front	of	some	of	the	form	ılas	are	cal	led
These numbers are used tobalance												1	the
equatio	on	becau	se	chemic	al ı	reaction	ns r	nust	obey	the	e La	ι W	of
Conservation of Matter. The number of atoms of each element on													
both sides of the equation must beequal because matte													ter
cannot	be .		crea	ited	(or	dest	royed	·	Wh	en ba	lanc	ing
equations, the only numbers that can be changed arecoefficients;													
remember thatformulas/subscripts must never be changed in order to													
balanc	e an e	equati:	on.										

II. Balance the following equations:

- 1. $4Al + 3O_2 \rightarrow 2Al_2O_3$
- 2. $C_3H_8 + 5O_2 \rightarrow 3CO_2 + 4H_2O$
- 3. $AI(NO_3)_3 + 3NaOH \rightarrow AI(OH)_3 + 3NaNO_3$

4.
$$2KNO_3 \rightarrow 2KNO_2 + O_2$$

5.
$$3O_2$$
 + CS_2 \rightarrow CO_2 + $2SO_2$

6.
$$2KCIO_3 \rightarrow 2KCI + 3O_2$$

7.
$$3BaF_2 + 2K_3PO_4 \rightarrow Ba_3(PO_4)_2 + 6KF$$

8.
$$H_2SO_4 + Mg(NO_3)_2 \rightarrow MgSO_4 + 2HNO_3$$

9.
$$2AI + 3H_2SO_4 \rightarrow AI_2(SO_4)_3 + 3H_2$$

10.
$$WO_3 + 3H_2 \rightarrow W + 3H_2O$$