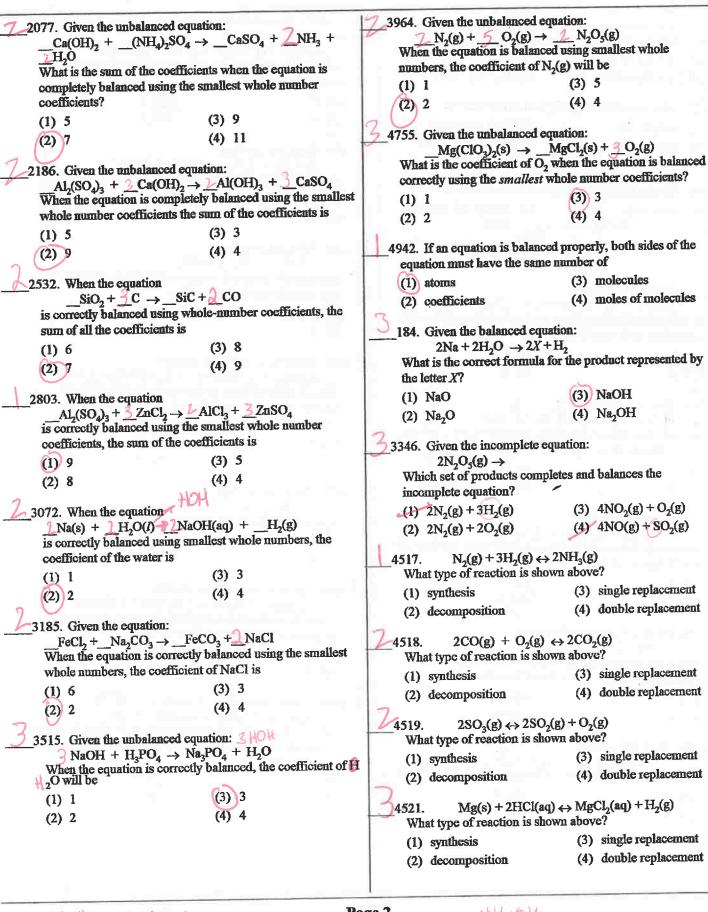
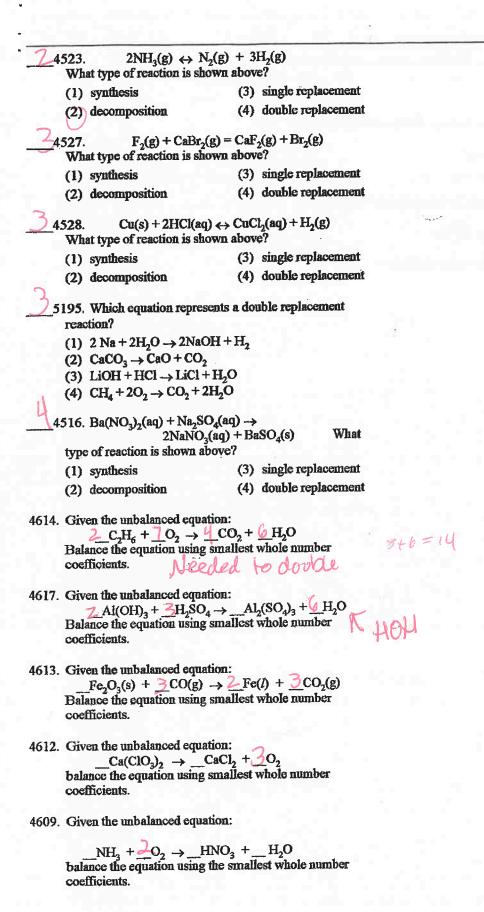
Catagon	
1161. Which equation illustrates conservation of mass?	866. When the equation
(1) $H_2 + Cl_2 \rightarrow HCl$ (3) $H_2 + O_2 \rightarrow H_2O$	$Fe_2O_3(s) + CO(g) \rightarrow Fe(l) + CO_2(g)$
(2) $H_2 + Cl_2 \rightarrow 2HCl$ (4) $H_2 + O_2 \rightarrow 2H_2O$	is correctly balanced using the smallest whole numbers, the
(1) 12 12 72	coefficient of Fe(l) is
4422. What is conserved during a chemical reaction?	(1) 1
(1) energy, only (3) both matter and energy	(2) 2
(2) matter, only (4) neither matter nor	
(2) matter, only energy	1276. When the equation
	is correctly balanced, the coefficient in front of $O_2$ will be
5402. All chemical reactions have a conservation of	400
(1) mass only (3) charge and energy.	(1) 7. $(3)$ 3
werthing only	(2) 10 (4) 4
(2) mass and charge, only (4) mass, charge, and	tood Will die emilien
energy	1384. When the equation $ \begin{array}{c}                                     $
	is completely balanced using smallest whole numbers, the
13. When the equation	sum of all the coefficients will be
$NH_a + \frac{1}{2}O_a \rightarrow HNO_a + H_2O$	
is completely balanced using smallest whole numbers, the	
coefficient of O <sub>2</sub> would be	(2) 7 (4) 12
(1) 1 (3) 3	3 1606. Given the unbalanced equation:
(2) 2 (4) 4	A1(SO) + $\frac{2}{3}$ Ca(OH) $\frac{1}{3}$ $\frac{2}{3}$ Al(OH) + $\frac{2}{3}$ CaSO <sub>4</sub>
	$\frac{\text{Al}_2(\text{SO}_4)_3 + \frac{3}{2}\text{Ca(OH)}_2 \rightarrow \frac{2}{2}\text{Al}(\text{OH})_3 + \frac{3}{2}\text{CaSO}_4}{\text{What is the coefficient in front of the CaSO}_4 \text{ when the}}$
5 159. When the equation 7	equation is completely balanced with the smallest
$NH_3 + \frac{1}{2}O_2 \rightarrow N_2 + \frac{1}{2}H_2O$	whole-number coefficients?
is completely balanced using the smallest whole numbers,	
the coefficient of the O2 will be	(1) 1 (2) 2 (3) 3 (4) 4
the coefficient of the $O_2$ will be $(1) 1$ $(2) 2$ $(3) 3$ $(4) 4$ $(4) 4$	(2) 2
(2) 2 (4) 4 <b>boold</b>	1657. When the equation
	$2 \text{ H}_{2}\text{O}_{2} \rightarrow 2 \text{H}_{2}\text{O} + 0_{2}$
244. When the equation	is completely balanced, the sum of all the coefficients will be
$\frac{1}{2}$ Al(s) + $\frac{3}{2}$ O <sub>2</sub> (g) $\rightarrow \frac{1}{2}$ Al <sub>2</sub> O <sub>3</sub> (s)	(1) 5 (3) 3
is correctly balanced using the smallest whole numbers, the	(2) 8 (4) 4
coefficient of Al(s) is	
(1) 1	1844. Given the unbalanced equation:
(2) 2	$C_3H_g(g) + 5O_2(g) \rightarrow H_2O(g) + 3CO_2(g)$
	When the equation is completely balanced using smallest
530. Given the unbalanced equation:	whole numbers, the coefficient of O2 is
$\frac{1}{2}$ Li + $\frac{1}{2}$ N <sub>2</sub> → $\frac{1}{2}$ Li <sub>3</sub> N When the equation is correctly balanced using smallest	(1) 5 (3) 3
whole numbers, the coefficient of the lithium is	(2) 2 (4) 10
(0) 0	1
	2010. Given the unbalanced equation: 4 HOH
(2) 2	$2 \text{Al}(OH)_1 + H_2SO_4 \rightarrow \text{Al}_2(SO_4)_3 + \Pi_2O_4$
708. When the equation	What is the coefficient in front of the H <sub>2</sub> O when the equation is completely balanced using the smallest whole number
$Ca(ClO_3)_2 \rightarrow CaCl_2 + 3O_2$	coefficients?
is correctly balanced, the coefficient in front of the $O_2$ will be	10
(2) 2	
	(2) 2 (4) 4
(2) 2 (4) 4	



 $(a(0H)_{z} + (MHu)_{2}S0y \rightarrow (CaS0y + 2NH3 + H_{z})$ (a=1 + 1 = 10) (a=1 + 1 = 1) (a



Base your answers to questions 5362 through 5361 on the balanced chemical equation below.

$$2 H_2O \rightarrow 2 H_2 + O_2$$

5362. How does the balanced chemical equation show the Law of Conservation of Mass?

5361. What type of reaction does this equation represent?

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5280. Base your answer to the following question on the unbalanced equation provided:

$$C_5H_{12}(g) + 9O_2(g) \rightarrow 5CO_2(g) + 6H_2O(g)$$

Balance the equation using the smallest whole-number coefficients.