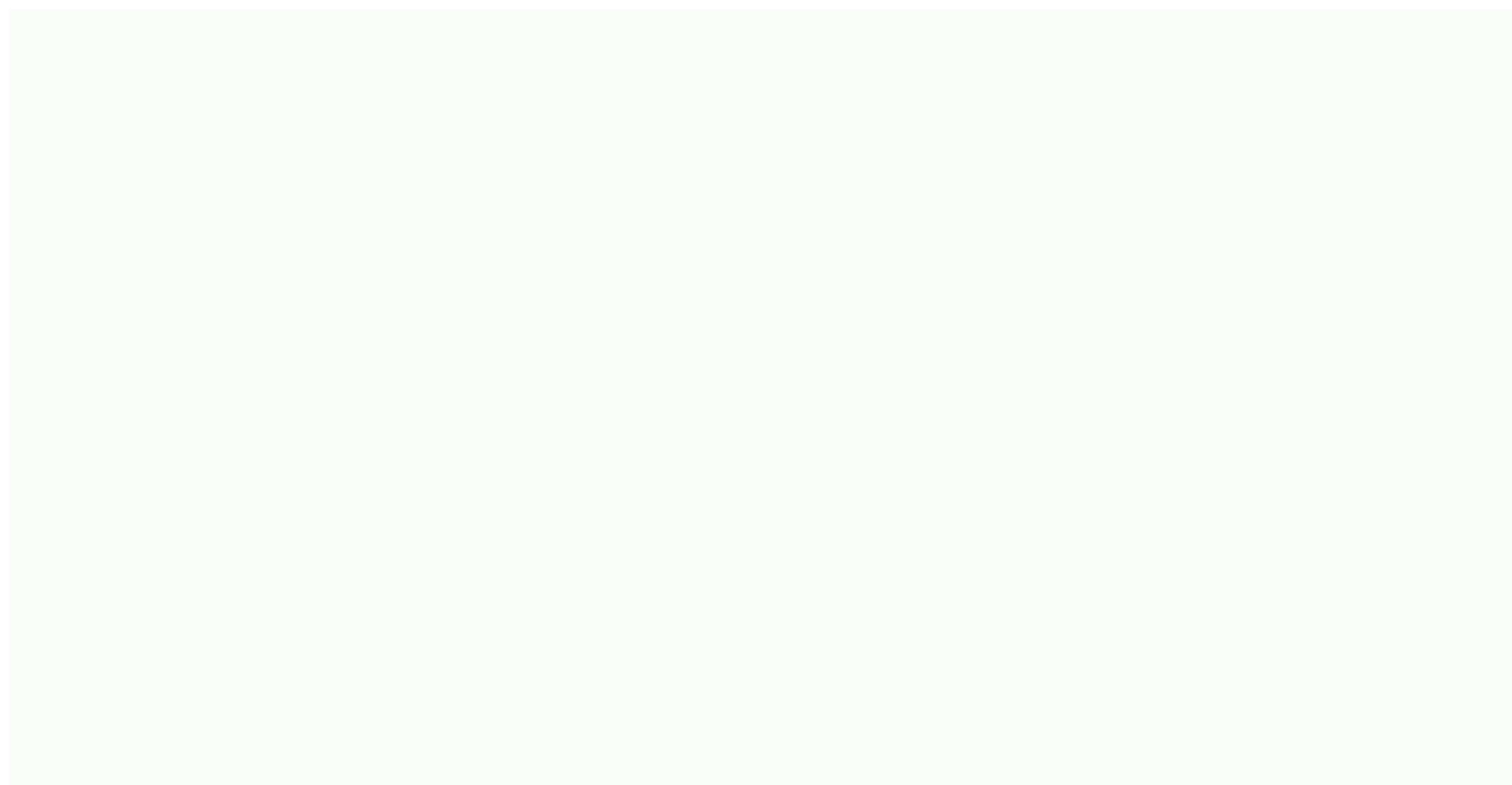
Physical science balancing equations worksheet

## Continue



## Balancing Chemical Equations Worksheet

1	$H_2 + O_2 \rightarrow H_2O$
2	$N_2 + H_2 \rightarrow NH_3$
з	$\S_8 + \O_2 \rightarrow \SO_3$
4	$N_2 + O_2 \rightarrow N_2O$
5	$HgO \rightarrowHg +O_2$
6	$\_ CO_2 + \_ H_2O \rightarrow \_ C_6H_{12}O_6 + \_ O_2$
7	$Zn +HCl \rightarrowZnCl_2 +H_2$
8	$SiCl_4 + \H_2O \rightarrow \H_4SiO_4 + \HCI$
9	$Na +H_2O →NaOH +H_2$
10	$H_3PO_4 \rightarrow H_4P_2O_7 + H_2O_7$
11	$C_{10}H_{16} + \CI_2 \rightarrow \C + \HCI$
12	$\ CO_2 + \ NH_3 \rightarrow \ OC(NH_2)_2 + \ H_2O$
13	$\Si_2H_3 + \O_2 \rightarrow \SiO_2 + \H_2O_3$
14	$AI(OH)_3 + H_2SO_4 \rightarrow AI_2(SO_4)_3 + H_2O$
15	$\underline{\qquad} Fe + \underline{\qquad} O_2 \rightarrow \underline{\qquad} Fe_2 O_3$
16	$Fe_2(SO_4)_3 + KOH \rightarrow K_2SO_4 + Fe(OH)_3$
17	$C_7H_6O_2 + $ $O_2 \rightarrow $ $CO_2 + $ $H_2O$
18	$H_2SO_4 + H_1 \rightarrow H_2S + H_2O$
19	$_FeS_2 + _O_2 \rightarrow _Fe_2O_3 + _O_2$
20	AI +FeO →Al <sub>2</sub> O <sub>3</sub> +Fe
21	$_Fe_2O_3 + _H_2 \rightarrow _Fe + _H_2O$
22	$Na_2CO_3 + $ HCl $\rightarrow$ NaCl + H <sub>2</sub> O + CO <sub>2</sub>
23	K +Br₂ →KBr
24	$C_7H_{16} + O_2 \rightarrow CO_2 + H_2O$

25.  $P_4 + P_2 O_2 \rightarrow P_2 O_5$ 

	1					
	Challenge Fr	cblem: G	m: Cive it your best shot:			
	$C_2H_6$ + $O_2 \rightarrow CO_2$ + $H_2O$					
	$\begin{array}{cccc} C_2 n_6 & \uparrow & O_2 \rightarrow & CO_2 + & n_2 O \\ \hline & & & & & \\ \hline & & & & & \\ \hline & & & &$					
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Name			Chemistry Works	heet		
			Naming & Formul	la Writing (Ionic)		
Instruct	lions: Write the formulas & or the names	for the compounds	listed below			
1,	Sodium nitrate		26. Aluminum chloride			
2.	Calcium carbonate		27. Iron (III) hydroxide			
3.	Magnesium oxide		28. Sodium acetate			
1.00	Ammonium sulfide					
а.	Ammonium sunde		29. calcium hydroxide	3 <u></u>		
	Lead (II) sulfate		29. calcium hydroxide 30. sodium iodate			
5.						
5. 6.	Lead (II) sulfate		30. sodium iodate			
5. 6. 7.	Lead (II) sulfate		30. sodium iodate 31. Nickel (II) nitrate			
5. 6. 7. 8.	Lead (II) sulfate Sodium cyanide Potassium hydroxide		30. sodium iodate 31. Nickel (II) nitrate 32. Iron (II) chloride			
5. 6. 7. 8. 9.	Lead (II) sulfate Sodium cyanide Potassium hydroxide Silver chloride		30. sodium iodate 31. Nickel (II) nitrate 32. Iron (II) chloride 33. Magnesium bromide			
5. 6. 7. 8. 9. 10	Lead (II) sulfate Sodium cyanide Potassium hydroxide Silver chloride fron (III) hydroxide		<ol> <li>sodium iodate</li> <li>Nickel (II) nitrate</li> <li>Iron (II) chloride</li> <li>Magnesium bromide</li> <li>Ammonium nitrate</li> </ol>			
5. 6. 7. 8. 9. 10	Lead (II) sulfate		<ol> <li>sodium iodate</li> <li>Nickel (II) nitrate</li> <li>Iron (II) chloride</li> <li>Magnesium bromide</li> <li>Ammonium nitrate</li> <li>Silver bromide</li> </ol>			
5. 6. 7. 8. 9. 10 11	Lead (II) sulfate		<ol> <li>sodium iodate</li> <li>Nickel (II) nitrate</li> <li>Iron (II) chloride</li> <li>Magnesium bromide</li> <li>Ammonium nitrate</li> <li>Silver bromide</li> <li>A(OH)<sub>2</sub></li> </ol>			
5. 6, 7, 8, 9, 10 11 12 13	Lead (II) sulfate		30. sodium iodate 31. Nickel (II) nitrate 32. iron (II) chioride 33. Magnesium bromide 34. Armonium nitrate 35. Silver bromide 36. AI(OH); 37. NH,I			
5. 6. 7. 8. 9. 10 11 12 13 14	Lead (II) sulfate		30. sodium iodate 31. Nickel (III) nitrate 32. Iron (III) chloride 33. Magnesium bromide 34. Ammonium nitrate 35. Silver bromide 36. Al(OH), 37. NH,1 38. Li <sub>2</sub> CO,			
5. 6. 7. 8. 9. 10 11 12 13 14 15	Lead (II) sulfate		30. sodium iodate 31. Nickel (III) nitrate 32. Iron (III) chloride 33. Magnesium bromide 34. Ammonium nitrate 35. Silver bromide 36. AI(OH), 37. NH,1 38. Li <sub>2</sub> CO <sub>3</sub> 39. CuSO <sub>4</sub>			
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5. 6. 7. 8. 9. 10 11 12 13 14 15 16 17 18	Lead (II) sulfate		30. sodium iodate 31. Nickel (III) nitrate 32. Iron (III) chloride 33. Magnesium bromide 34. Ammonumitate 35. Silvet bromide 36. Al(OH); 37. NH,l 38. LisCO; 39. CuSO; 40. KCN 41. PB(CIO); 42. BaS			
5. 6. 7. 8. 9. 10 11 12 13 14 15 16 17 18 19	Lead (II) sulfate		30. sodium iodate 31. Nickel (III) nitrate 32. Iron (III) chloride 34. Armonium nitrate 35. Silver brond 35. Silver brond 36. Al(OH), 37. NH,I 38. Li,CO, 39. CuSO, 40. KCN 41. Pp(CO) <sub>2</sub> 42. BaS 43. ZnSO,			
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5. 6. 7. 8. 9. 10 11 12 13 14 15 16 17 18 19 20 21 22	Lead (II) sulfate		30. sodium iodate 31. Nickel (III) nitrate 32. Iron (III) chioride 33. Magnesium bromide 34. Anrinonium nitrate 35. Silver bromide 36. AI(OH); 37. NH,1 39. Li <sub>2</sub> OO; 39. CuSO; 40. KCN 41. Pb(CIO); 42. BaS 43. ZnSO; 44. Pb(CH/_COO); 45. Ca(MO;); 46. Fe <sub>3</sub> (CO,);			
5. 6. 7. 8. 9. 10 11 12 13 14 15 16 15 16 17 18 19 20 21 22 23	Lead (II) sulfate Sodium cyanide Potassum hydroxide Silver chioride Iron (III) hydroxide Potassium hydroxide Tin (IV) perchierate Potassium carbonate Sodium iodate Codum iodate Codum iodate Lead (IV) oxide Charsum hydroxide Barium sulfate Linarum filmide Cobati (II) chioride Sodium carbonate		30. sodium iodate 31. Nickel (III) nitrate 32. Iron (III) chloride 33. Magnesium bromide 34. Arrunonium itrate 35. Silver bromide 35. Silver bromide 36. Al(OH); 37. NH,I 30. Li,CO; 39. CuSO; 40. KCN 41. Pb(CO); 42. BaS 43. ZoSO; 44. Pb(CH,COO); 45. Ca(NO); 46. Fe;(CO); 47. NH,IO;			

Name:

**Chemistry Practice: Balancing Chemical Equations** 

1. Balance the equations below. Remember this means only using coeeficients. All formulas are written correctly.

a.)	2 NaHCO3	$\longrightarrow$	Na <sub>2</sub> CO <sub>3</sub> +	$H_2O$ +	CO <sub>2</sub>
b.)	Zn + S	>	ZnS		
c.)	<u>2</u> H <sub>2</sub> + O <sub>2</sub>	>	2.H <sub>2</sub> O		
d.)	2 FeO + C	>	ZFe + CO <sub>2</sub>		
e.)	Cl <sub>2</sub> + ZKI	>	2_KCI +	I <sub>2</sub>	
f.)	B <sub>2</sub> O <sub>3</sub> +	3Mg	<u>3 MgC</u>	0 + 2 B	
g.)	Ca +2 H <sub>2</sub> O	>	Ca(OH)2 +	<u>2</u> H <sub>2</sub>	
(h)=	(20 + Na2B4O7 +	H <sub>2</sub> SO <sub>4</sub> -	→ 4/H <sub>3</sub> B	O <sub>3</sub> + Na <sub>2</sub> SO <sub>4</sub>	Ú.
i.)	CaC <sub>2</sub> + 2.H <sub>2</sub> C	( <u>10</u>	► Ca(0	$OH)_2 + C_2H_2$	

j.) NH₄NO₃ → N₂O +2H₂O  $H_2S + O_2 \longrightarrow SO_2 + H_2O$ k.)  $H_2SO_4 + 2NaC1 \longrightarrow ZHC1 + Na_2SO_4$ I.) 2.NaCl +2H<sub>2</sub>O → 2.NaOH + Cl<sub>2</sub> + H<sub>2</sub> m.) 3 BaO + Z Al \_\_\_\_ 3 Ba + Al<sub>2</sub>O<sub>3</sub> n.) 302 → 20, 0.) → 2 co + Si SiO<sub>2</sub> + 2 C p.) 2 PbS + 3 O2 2 PbO + 2 SO2 q.) 2 HgO → 2 Hg + O<sub>2</sub> r.)  $C_{12}H_{22}O_{11} + 1/2O_2 - 1/4I_2O_2 + 1/4I_2O_2$ s.)  $C_3H_8 + SO_2 \longrightarrow 3CO_2 + 4/H_2O$ t.) 2. FeCl3 + 3 (NH4)2S 6 NH4CI + Fe2S3 u.) P2O3 + 6 NaOH \_\_\_\_ 2 Na3PO4 + 3 H2O v.)  $3 \operatorname{BaCl}_2 + \operatorname{Al}_2(\operatorname{SO}_4)_3 \longrightarrow 3 \operatorname{BaSO}_4 + 2 \operatorname{AlCl}_3$ W.)  $4' NH_3 + 5 O_2 \longrightarrow 6 H_2O + 4'NO$ x.) 2 Na<sub>2</sub>O<sub>2</sub> + 2 H<sub>2</sub>O → 4/ NaOH + 4 O<sub>2</sub> y.) -----> SnCl<sub>4</sub> + 6 O<sub>2</sub> Sn(ClO<sub>3</sub>)<sub>4</sub> z.)

Text Problems to be Completed on the Other Side of this Worksheet: \*P. 173 #45,49,53,54,56,57,58,63, 65,66,67,71 \*(Although the directions may say to write an "unbalanced" equation, write a balanced equation for each.)

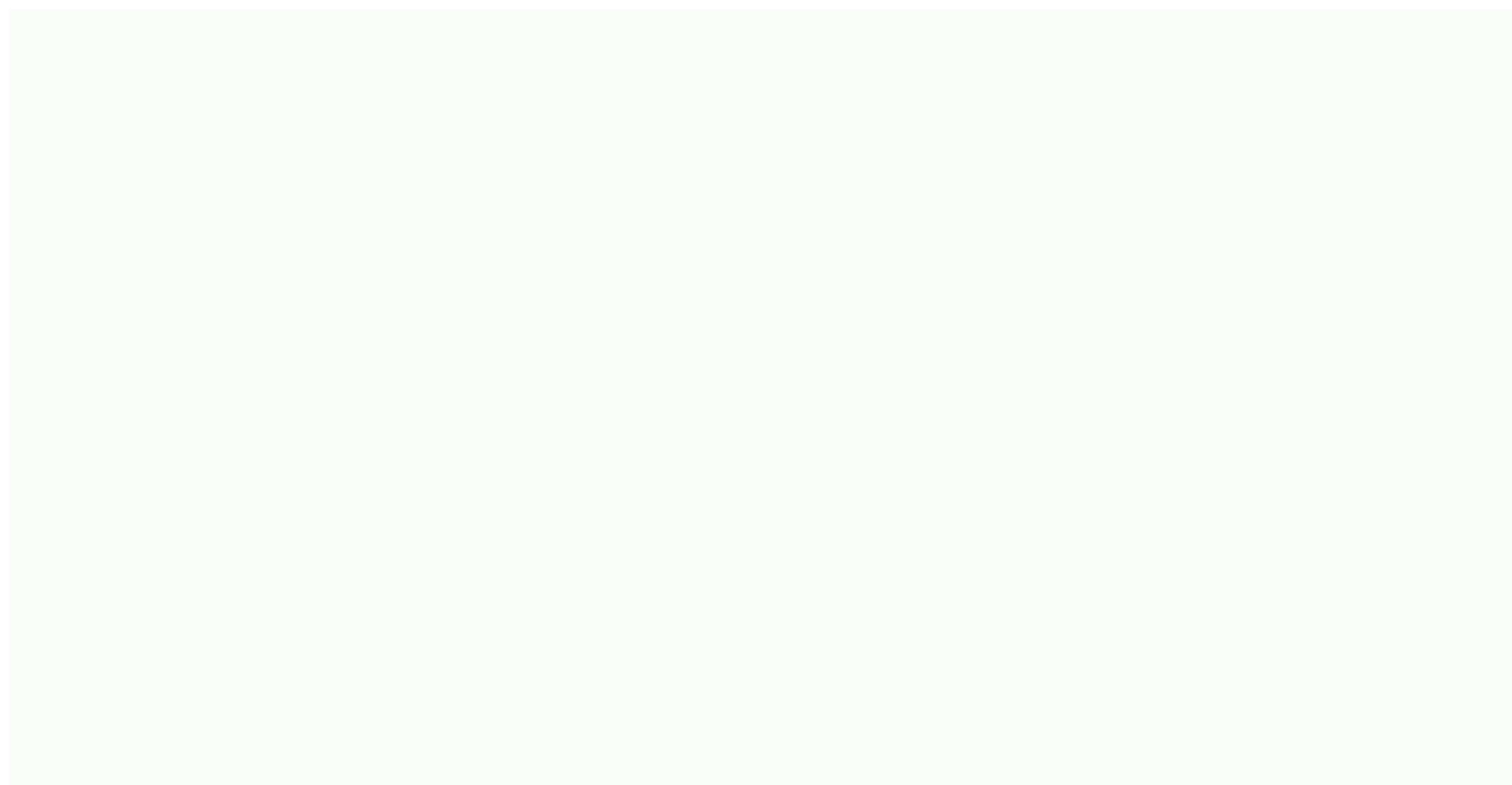
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About Charakaby

## Balancing equations worksheet physical science if8767. Physical science balancing equations worksheet answers. Balancing equations primary school. How to do balancing equations in science.

A balanced equation is an equation for a chemical reaction in which the number of atoms for each element in the reaction, balancing the reaction, bala conservation of charge and mass. An unbalanced chemical equation lists the reactants and products in a chemical reaction but doesn't state the amounts required to satisfy the conservation of mass. For example, this equation for the reactants and products in a chemical equation for the reactant equation for the reactant equation for the reactant equation for the reactant equation  $C \rightarrow Fe + CO2$  The equation is balanced for charge because both sides of the equation have no ions (net neutral charge). The equation have no ions (net neutral charge). Even without counting up the quantities of other atoms, you can tell the equation isn't balanced. The goal of balancing the equation is to have the same number of each type of atom on both the left and right sides of the arrow. This is achieved by changing the coefficients of the compounds (numbers placed in front of compound formulas). The subscripts (small numbers to the right of some atoms, as for iron and oxygen in this example) are never changed. Changing the subscripts would alter the chemical identity of the compound. The balanced equation is: 2 Fe2O3 + 3 C → 4 Fe + 3 CO2 Both the left and right sides of the equation have 4 Fe, 6 O, and 3 C atoms. When you balance equations, it's a good idea to check your work by multiplying the subscript of each atom by the coefficient. When no subscript is cited, consider it to be 1. It's also good practice to cite the state of matter of each reactant. This is listed in parentheses immediately following the compound. For example, the earlier reaction could be written: 2 Fe(s) + 3 CO2(g) where s indicates a solid and g is a gas. In aqueous solutions, it's common to balance chemical equations for both mass and charge. Balancing for mass produces the same numbers and kinds of atoms on both sides of the equation. The state of matter (aq) stands for aqueous, meaning only the ions are shown in the equation and that they are in the water. For example: Ag+(aq) + NO3-(aq) + Na+(aq) + NA+(negative charges, which means the net charge on the left side is neutral. On the right side, there is a neutral compound, one positive, and one negative charge of 0. Writing balanced chemical equations is essential for chemistry class. Here are examples of balanced equations you can review or use for homework. Note that if you have "1" of something, it does not get a coefficient or subscript. The word equations for a few of these reactions have been provided, though most likely you'll be asked to provide only the standard chemical equations. In chemistry, it's important to be able to recognize when equations are balanced, when they are not balanced, and how to balance them. A balanced equation contains the same number of each type of atoms on both the left and right sides of the arrow. To write a balanced equation, the reactants go on the right side of the arrow. To write a balanced equation, the reactants go on the left and right side of the arrow. To write a balanced equation arrow. To write a balanced equ Subscripts (numbers below an atom) indicate the number of atoms in a single molecule. To calculate the number of atoms, multiply the coefficient or subscript "1" is implied, but is not written. A balanced equation is reduced to the lowest whole number coefficients. So, if all the coefficients can be divided by 2 or 3, do this before finalizing the reaction. 6 CO2 + 6 H2O → C6H12O6 + 6 O2 (balanced equation for photosynthesis) 6 carbon dioxide + 6 water yields 1 glucose + 6 oxygen 2 AgI + Na2S → Ag2S + 2 NaI2 silver iodide + 1 sodium sulfide yields 1 silver sulfide + 2 sodium iodide Ba3N2 + 6 H2O  $\rightarrow$  3 Ba(OH)2 + 2 NH3 3 CaCl2 + 2 Na3PO4  $\rightarrow$  Ca3(PO4)2 + 6 H2O  $\rightarrow$  4 H2O  $\rightarrow$  H3PO4  $\rightarrow$  H3PO4  $\rightarrow$  Ca3(PO4)2 + 6 H2O  $\rightarrow$  3 Ba(OH)2 + 2 NH3 3 CaCl2 + 2 Na3PO4  $\rightarrow$  Ca3(PO4)2 + 6 H2O  $\rightarrow$  4 H3PO4  $\rightarrow$  4 H3PO4  $\rightarrow$  4 H3PO4  $\rightarrow$  Ca3(PO4)2 + 6 H2O  $\rightarrow$  4 H3PO4  $\rightarrow$  $8 \text{ CO} + 17 \text{ H2} \rightarrow \text{C8H18} + 8 \text{ H2O} 10 \text{ KClO3} + 3 \text{ P4} \rightarrow 3 \text{ P4O10} + 10 \text{ KCl} \text{ SnO2} + 2 \text{ H2} \rightarrow \text{Sn} + 2 \text{ H2O} 3 \text{ KOH} + \text{H3PO4} \rightarrow \text{K3PO4} + 3 \text{ H2O} 2 \text{ KNO3} + 12 \text{ CO3} + 2 \text{ H2O} 3 \text{ KOH} + \text{H3PO4} \rightarrow \text{K3PO4} + 3 \text{ H2O} 3 \text{ KOH} + 13 \text{ H2O} 3 \text{ KOH} + 13$ 6 H2O B2Br6 + 6 HNO3  $\rightarrow$  2 B(NO3)3 + 6 HBr 4 NH4OH + KAl(SO4)2 · 12H2O  $\rightarrow$  Al(OH)3 + 2 (NH4)2SO4 + KOH + 12 H2O When you balance a chemical equation, it's always a good idea to check the final equation to make sure it works out. Perform the following check: Add up the numbers of each type of atom. The total number of atoms in a balanced equation will be the same on both sides of the equation. The Law of Conservation of Mass states the mass is the same before and after a chemical reaction. Make sure you accounted for all types of atoms. Elements present on one side of the equation. coefficients. For example, if you could divide all of the coefficients on both sides of the equation by 2, then you may have a balanced equation, but not the simplest balanced equation, but not the simplest balanced equation, but not the simplest balanced equation. James E. Brady; Frederick Senese; Neil D. Jespersen (2007). Chemistry: Matter and Its Changes. John Wiley & Sons. ISBN 9780470120941. Thorne, Lawrence R. (2010). "An Innovative Approach to Balancing Chemical-Reaction Equations: A Simplified Matrix-Inversion Technique for Determining the Matrix Null Space". Chem. Educator. 15: 304–308. There are many types of energy in the world, from potential and kinetic to electrical and thermal, along with many others. But what exactly is energy? By Mark Mancini Many people get speed and velocity confused. It's no surprise because the terms are often used interchangeably. But they're not quite the same thing. So how do you find the velocity of an object? By Mark Mancini A chemical equation tells you what happens during a chemical reaction. A balanced chemical equation has the correct number of reactants and products to satisfy the Law of Conservation of Mass. In this article, we'll talk about what a chemical equations, and give you some examples to aid in your balancing chemical equations, and give you some examples to aid in your balancing chemical equations. reaction. Here's what a chemical equation looks like: Fe + O2 → Fe2O3 On the left side of the equation are the materials that you start with in a chemical reaction. On the right side of the equation are the products. The products are the substances that are made as a result of a chemical reaction. In order for a chemical reaction to be correct, it needs to satisfy something called the Law of Conservation of Mass, which states that mass can't be created or destroyed during a chemical equation has different masses on the left and right side of the equation, you'll need to balance your chemical equations. How to Balance Chemical equations means that you write the chemical equations means that you write the chemical equation, we're going to explain how to balance a chemical equation by using a real life example, the chemical equation that occurs when iron rusts: Fe + O2 → Fe2O3 #1: Identify the Products and Reactants The first step in balancing a chemical equation. The products are on the right side. For this equation, our reactants are Fe and O2. Our products are Fe2 and O3. #2: Write the Number of Atoms Next, you need to determine how many atoms of each element are present on each side of the equation. present, then you just have one atom of something. Fe + O2 → Fe2O3 On the reactant side, we have one atom of iron and two atoms of oxygen. When you write out the number of products, you can see that the equation isn't balanced, because there are different amounts of each atom on the reactant side and the product side. That means we need to add coefficients to make this equation balanced. #3: Add Coefficients Earlier, I mentioned that there are two ways to tell how many atoms of a particular element exist in a chemical equation: by looking at the subscripts and looking at the coefficients. When you balance a chemical equation, you change coefficients. You never change subscripts. A coefficient is a whole number multiplier. To balance a chemical equation, you add these whole number multipliers (coefficients) to make sure that there are the same number multiplier. apply to every part of a product. For instance, take the chemical equation for water: H2O. If you added a coefficient to make it 2H2O, then the coefficient to make it 2H2O, then the coefficient to make it 2H2O, then the coefficient multiples across all of the elements present. So, in our chemical equation (Fe + O2 → Fe2O3), any coefficient you add to the product has to be reflected with the reactants. Let's look at how to balance this chemical equation. On the product side, we have two atoms of iron and three atoms of iron works: 2Fe + O2 - Fe2O3 While that balances out the iron atoms (leaving two on each side), oxygen is still unbalanced. That means we need to keep looking. Taking iron first, we know that we'll be working with a multiple of two, since there are two atoms of iron present on the product side. Knowing that using two as a coefficient won't work, let's try the next multiple of two: four.  $4Fe + O2 \rightarrow 2Fe2O3$  That creates balance for iron by having four atoms of oxygen are present. That means that we can write our balanced chemical equations this way: 4Fe + 302 - 3Fe2O3 3 Great Sources of Balancing Chemical equations practice online. Here are a few places with practice problems you can use: Balancing Chemical Equations: Key Takeaways Balancing chemical equations seems complicated, but it's really not that hard! Your main goal when balancing chemical equations is to make sure that there are the same amount of reactants and products on each side of the chemical equations, the 11 solubility rules, and the solubility constant (Ksp), as well as info info on AP Chem, IB Chemistry, and Regents Chemistry. Writing a research paper topics in ten categories so you can be sure to find the perfect topic for you. Want to know the fastest and easiest ways to convert between Fahrenheit and Celsius? We've got you covered! Check out our guide to the best ways to convert Celsius to Fahrenheit (or vice versa). Are you studying clouds in your science class? Get help identifying the different types of clouds with our expert guide. Need more help with this topic? Check out Tutorbase! Our vetted tutor database includes a range of experienced educators who can help you polish an essay for English or explain how derivatives work for Calculus. You can use dozens of filters and search criteria to find the perfect person for your needs.



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