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 <td a chemical equation is a symb indicating the reactants and products in a reaction and the direction in which the reaction proceeds french chemist jean beguin gets credit for formulating the first chemical equation in 1615 \mathbb{Z} \mathbb{Z} 2023 \mathbb{Z} 4 \mathbb{Z} 6 \mathbb{Z} summary a chemical reaction is the process by which one or more substances are changed into one or more new substances chemical reactions are represented by chemical equations chemical equations have reactants on the left an arrow that is read as yields and the products on the right 🛛 🖄 🖄 the chemical equation described in section 4 1 is balanced meaning that equal numbers of atoms for each element involved in the reaction are represented on the reactant and product sides this is a requirement the equation must satisfy to be consistent with the law of conservation of matter 🛛 🖉 20202 62 102 learning objectives identify the reactants and products in any chemical reaction convert word equations into chemical equations use the common symbols s l g aq and appropriately when writing a chemical reaction in a chemical change new substances are formed 🛛 🖄 🖄 for example we can describe the chemical reactions that occur in the physical world using chemical equations these equations include symbols with specific meanings the key features of a chemical equation are pointed out here reactants are the substances we start with they are written on the left side of the arrow 🛛 🖄 🖉 practice up next for you apply counting atoms in chemical equations balancing chemical equations learn balancing chemical equations balancing more complex chemical equations visually understanding balancing chemical equations balancing another combustion reaction practice apply balancing equations 🛛 🖄 🖄 2014 🖄 11 2 192 balancing chemical equations is one of those concepts in chemistry that often confuses people but i think we ll see that if we work through this carefully and methodically and we also appreciate the art 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chemical equations are balanced the same number of each element s atoms appears on each side of the equation 2 2 2024 52 62 chemical reaction a process in which one or more substances the reactants are converted to one or more different substances the products substances are either chemical elements or compounds a chemical reaction rearranges the constituent atoms of the reactants to create different substances as products \mathbb{Z} \mathbb{Z} 2023 \mathbb{Z} 22 24 \mathbb{Z} word equations are useful to show which chemicals react together reactants and which chemicals are produced products symbol equations allow chemists to work out the masses that \mathbb{Z} \mathbb{Z} 2023 \mathbb{Z} 4 \mathbb{Z} 6 \mathbb{Z} to be useful chemical equations must always be balanced balanced chemical equations have the same number and type of each atom on both sides of the equation the coefficients in a balanced equation must be the simplest 🛛 🖄 2023 🖾 217 🖄 chemical equations aqa synergy chemical 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