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balancing chemical equations if a special condition is required for the reaction i e a catalyst light heat it is placed above the yield arrow in the chemical equation

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this chapter will describe how to symbolize chemical reactions using chemical equations how to classify some common chemical reactions by identifying patterns of reactivity and how to determine the quantitative relations between the amounts of substances involved in chemical reactions that is the reaction stoichiometry

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use the chemical equation to determine how many moles of water are present total the mass for all elements that make up one mole of water determine how many grams are present in 2 moles of water convert 36 04 g of water to kilograms using the conversion method e y the coefficient in front of h 2O is 2 so 2 moles of water are present

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a chemical reaction is described by a chemical equation an expression that gives the identities and quantities of the substances involved in a reaction a chemical equation shows the starting compounds the reactants on the left and the final compounds the products on the right

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chemical reactions list reactants and products in molar amounts not just molecular amounts we can use the coefficients of a balanced chemical equation to relate moles of one substance in the reaction to moles of other substances stoichiometry

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in chemistry a chemical test is a qualitative or quantitative procedure designed to identify quantify or characterise a chemical compound or chemical group purposes chemical testing might have a variety of purposes such as to determine if or verify that the requirements of a specification regulation or contract are met

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