

CHAPTER 7 CHEMICAL REACTIONS

ANSWER KEY

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What is the chemical reaction class 7 answer? 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.

What happens in a chemical reaction answer? Chemical reactions involve breaking chemical bonds between reactant molecules (particles) and forming new bonds between atoms in product particles (molecules). The number of atoms before and after the chemical change is the same but the number of molecules will change.

Which word describes a chemical reaction that releases energy? Chemical reactions that release energy are called exothermic.

What is a reaction that releases energy to its surroundings? An exothermic reaction is a chemical reaction that releases energy by light or heat. It is the opposite of an endothermic reaction. Expressed in a chemical equation: reactants → products + energy.

What is the chemical answer? A chemical is any substance that has a defined composition. In other words, a chemical is always made up of the same "stuff." Some chemicals occur in nature, such as water.

What is chemical change class 7 answer? A change in which a substance undergoes a change in its chemical properties is called a chemical change. New substances are formed. For rusting, the presence of both oxygen and water (or water

vapour) is essential.

What is chemistry short answer? What is chemistry? Chemistry is the branch of science that deals with the properties, composition, and structure of elements and compounds, how they can change, and the energy that is released or absorbed when they change.

What is a chemical reaction very short answer? Chemical Reaction: – The processes, in which a substance or substances undergo a chemical change to produce new substance or substances, with entire new properties, are known as chemical reactions. The nature and identity of products totally different from the reactants.

Which is an example of a chemical reaction answer? Look for signs of a reaction. Chemical reactions often involve color changes, temperature changes, gas production, or precipitant formation. Simple examples of everyday reactions include digestion, combustion, and cooking.

How to balance chemical equations? So how do you go about balancing an equation? These are the steps: First, count the atoms on each side. Second, change the coefficient of one of the substances. Third, count the numbers of atoms again and, from there, repeat steps two and three until you've balanced the equation.

Is dissolving a chemical change? Chemical Change: If the process of dissolving involves a chemical reaction and results in the formation of new substances, it is a chemical change. For instance, when some metals dissolve in acids, a chemical reaction occurs, producing hydrogen gas and a new compound.

How to tell if it's a chemical change? Summary. Chemical reactions can be identified via a wide range of different observable factors including change in color, energy change (temperature change or light produced), gas production, something burning, and the formation of a precipitate.

How does the orientation of colliding molecules affect the chemical reaction? The orientation of the molecules at the time of collision is crucial because it determines whether the reactants' atoms are correctly aligned to form new bonds and hence new products. If the molecules are not correctly oriented, even if they

collide with enough energy, a reaction may not occur.

How do chemical reactions play a role in energy transfer? According to the modern view of chemical reactions, bonds between atoms in the reactants must be broken, and the atoms or pieces of molecules are reassembled into products by forming new bonds. Energy is absorbed to break bonds, and energy is evolved as bonds are made.

How does chemical energy play a role in various chemical reactions? In a chemical reaction, energy is used for either breaking the bonds of the reactants or in the formation of new bonds. So, there are two ways to produce the energy in a reaction i.e, in exothermic reaction or endothermic reaction.

Is chemical change reversible? Physical changes in matter are often reversible: An ice cube can melt into liquid water, and then the liquid water can be frozen back into an ice cube. Chemical changes, on the other hand, are not reversible: A log burned in a fire turns to ashes, but the ashes cannot be changed back into a log.

What is an example of a change in state in a chemical reaction? Change in State – Some chemical reactions are accompanied by a change in state. For example, ammonia gas reacts with hydrogen chloride gas and forms solid ammonium chloride crystals.

What is the difference between a physical change and a chemical change? In a physical change, no new substance is formed. A chemical change is always accompanied by one or more new substance(s). Physical change is easily reversible i.e original substance can be recovered. Chemical changes are irreversible i.e. original substance cannot be recovered.

How do you know this chemical reaction has taken place? Some signs of a chemical change are a change in color and the formation of bubbles. The five conditions of chemical change: color change, formation of a precipitate, formation of a gas, odor change, temperature change.

What are the different types of reactions?

What is reactant and product? The substance(s) to the left of the arrow in a chemical equation are called reactants. A reactant is a substance that is present at

the start of a chemical reaction. The substance(s) to the right of the arrow are called products. A product is a substance that is present at the end of a chemical reaction.

What is a chemical reaction 7th grade? No new atoms are created, and no atoms are destroyed. In a chemical reaction, reactants contact each other, bonds between atoms in the reactants are broken, and atoms rearrange and form new bonds to make the products.

What is chemical reaction in easy words? Chemical Reaction: – The processes, in which a substance or substances undergo a chemical change to produce new substance or substances, with entire new properties, are known as chemical reactions. The nature and identity of products totally different from the reactants.

What are the 7 types of reactions?

What are the 4 types of chemical reactions? Types of Chemical Reactions : Core Concepts This article will cover the main classifications of chemical reactions: synthesis reaction, decomposition reaction, single replacement reaction (single displacement reaction), and double replacement reaction (double displacement reaction).

Stalin's Ocean-Going Fleet: Soviet Naval Strategy and Shipbuilding Programs (1935-53)

Q: What were the main objectives of Stalin's naval strategy and shipbuilding programs during this period?

A: Stalin's goal was to transform the Soviet Union into a major naval power capable of protecting its extensive coastline and projecting power globally. The Soviet Navy's primary focus was on building a balanced ocean-going fleet consisting of battleships, cruisers, destroyers, and submarines.

Q: What were the significant warships constructed under these programs?

A: The Soviet shipbuilding industry produced a number of impressive warships during this time, including the "Sovetsky Soyuz" class battleships, the "Kirov" class cruisers, and the "Udaloi" class destroyers. These vessels were designed to be powerful and technologically advanced, featuring heavy firepower, long range, and

modern electronics.

Q: How did Stalin's fleet compare to those of other major powers?

A: While the Soviet Navy expanded rapidly, it still lagged behind the United States and the United Kingdom in terms of overall tonnage and technological capabilities. However, the Soviet fleet was well-suited for its specific tasks, such as coastal defense and disrupting enemy supply lines.

Q: What factors contributed to the success of the Soviet shipbuilding programs?

A: The Soviet shipbuilding industry benefited from a large and skilled workforce, as well as centralized planning and massive state support. The government provided generous funding and resources, allowing for the construction of numerous shipyards and the acquisition of advanced equipment.

Q: What were the long-term consequences of Stalin's naval build-up?

A: Stalin's naval programs laid the foundation for the Soviet Navy's emergence as a global power during the Cold War. The ocean-going fleet served as a deterrent against potential adversaries and enabled the Soviet Union to establish a presence in different regions of the world. However, the aggressive expansion of the Soviet Navy also contributed to international tensions and increased the risk of conflict.

Questions and Answers on Selenium IDE and Selenium Documentation

Q1: What is Selenium IDE? **A1:** Selenium IDE (Integrated Development Environment) is a browser extension that allows you to record and playback test cases for web applications. It provides a user-friendly interface for creating and maintaining automated tests.

Q2: Where can I find Selenium documentation? **A2:** SeleniumHQ provides comprehensive documentation for all Selenium products, including Selenium IDE. You can access the documentation at <https://www.seleniumhq.org/docs/>.

Q3: How do I record a test case in Selenium IDE? **A3:** Open Selenium IDE in your browser, navigate to the web application you want to test, and click the

"Record" button. Selenium IDE will record your interactions with the application.

Q4: How can I playback a test case in Selenium IDE? **A4:** Once you have recorded a test case, click the "Playback" button to execute it. Selenium IDE will replay your recorded interactions and verify their outcomes.

Q5: Where can I learn more about using Selenium IDE? **A5:** In addition to the official Selenium documentation, there are numerous tutorials, articles, and online communities that provide guidance and support for using Selenium IDE. Search for resources on topics such as "Selenium IDE tutorial" or "Selenium IDE documentation" to find helpful information.

Zoran Music: Exploring the Crossroads of Modern and Contemporary Art

1. Who was Zoran Music?

Zoran Music (1909-2005) was a prominent Serbian-American painter known for his evocative and enigmatic abstract expressionist works. He left a lasting mark on the art world, bridging the gap between modern and contemporary art.

2. What Inspired Music's Artistic Style?

Music's style was heavily influenced by his experiences as a survivor of the Holocaust. Having witnessed the horrors of the concentration camps, he sought to express the complexities of trauma and memory through his art. His works often explore themes of displacement, loss, and hope.

3. How Did Music's Work Evolve Over Time?

Throughout his career, Music's artistic style evolved. Initially known for his surrealist-influenced paintings, he gradually transitioned towards abstraction. His mature works are characterized by bold colors, gestural brushstrokes, and a sense of spatial ambiguity.

4. How Did Music Contribute to the Contemporary Art Movement?

Music played a pivotal role in the development of contemporary art. As one of the early pioneers of abstract expressionism, he helped establish the movement as a force in the international art scene. His collaborations with other prominent artists,

such as Willem de Kooning and Jackson Pollock, contributed to the formation of a new artistic language.

5. What is Music's Legacy and Impact Today?

Zoran Music's art continues to be widely exhibited and celebrated. His works are featured in major museums around the world. His contributions to abstraction and the exploration of trauma have influenced generations of artists and continue to inspire contemporary artistic practices. Music's legacy as a visionary and innovative artist remains a testament to the power of art to transcend boundaries and address universal human experiences.

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