

Chapter 7 Chemical Reactions

6. What is a double-replacement reaction? A double-replacement reaction is a reaction in which two different compounds exchange positive ions and form two new compounds.
7. Complete the chart by filling in the general forms of the reactions shown.

General Forms	
Single-Replacement Reaction	Double-Replacement Reaction
$A + BC \longrightarrow B + AC$	$AB + CD \longrightarrow AD + CB$

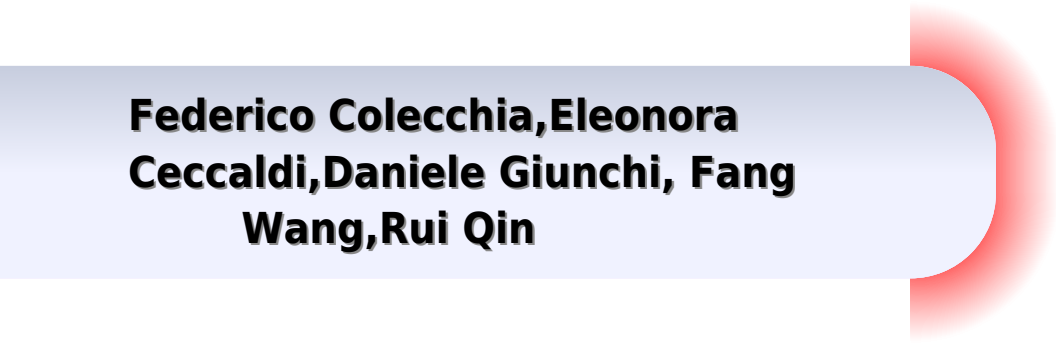
8. Lead(II) nitrate reacts with potassium iodide to form lead(II) iodide and potassium nitrate. Write the balanced equation for this double-replacement reaction. $Pb(NO_3)_2 + 2KI \longrightarrow PbI_2 + 2KNO_3$
9. Circle the letter of the correct answer. Calcium carbonate, $CaCO_3$, reacts with hydrochloric acid, HCl , in a double-replacement reaction. What are the products of this reaction?
- ☒ a. calcium chloride, $CaCl_2$, and carbonic acid, H_2CO_3
 b. calcium hydride, CaH_2 , chlorine, Cl_2 , and carbon dioxide, CO_2
 c. calcium hydrogen carbonate, $Ca(HCO_3)_2$, and chlorine, Cl_2
 d. calcium perchlorate, $Ca(ClO_4)_2$, and methane, CH_4
10. Is the following sentence true or false? A combustion reaction is a reaction in which a substance reacts with carbon dioxide, often producing heat and light. false
11. Methane, CH_4 , burns in oxygen to form carbon dioxide and water. Write the balanced equation for this reaction. $CH_4 + 2O_2 \longrightarrow CO_2 + 2H_2O$
12. Is the following sentence true or false? The reaction that forms water can be classified as either a synthesis reaction or a combustion reaction. true

Reactions as Electron Transfers (pages 204–205)

13. What is an oxidation-reduction reaction? An oxidation-reduction reaction is a reaction in which electrons are transferred from one reactant to another.
14. Calcium reacts with oxygen to form calcium oxide. Which reactant is oxidized in this reaction? calcium
15. Is the following sentence true or false? When calcium reacts with oxygen, each calcium atom gains two electrons and becomes a calcium ion with a charge of 2–. false
16. Is the following sentence true or false? Oxygen must be present in order for an oxidation-reduction reaction to take place. false
17. The process in which an element gains electrons during a chemical reaction is called reduction.

Biology Lab Manual 2015 Investigation 3 Answers

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Biology, 1984

Management of Animal Care and Use Programs in Research, Education, and Testing Robert H. Weichbrod, Gail A. (Heidbrink) Thompson, John N. Norton, 2017-09-07 AAP Prose Award Finalist 2018 19 Management of Animal Care and Use Programs in Research Education and Testing Second Edition is the extensively expanded revision of the popular Management of Laboratory Animal Care and Use Programs book published earlier this century Following in the footsteps of the first edition this revision serves as a first line management resource providing for strong advocacy for advancing quality animal welfare and science worldwide and continues as a valuable seminal reference for those engaged in all types of programs involving animal care and use The new edition has more than doubled the number of chapters in the original volume to present a more comprehensive overview of the current

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augmented reality hold great potential for driving disruptive healthcare innovation. However, the adoption of digital technology in healthcare, including use of data-driven tools in support of clinical decision making and patient-facing applications relying on consumer electronic devices, is often hindered by issues of user experience, trust, equity, and fairness. There is increasing recognition of a need to facilitate further convergence between the development of emerging technologies and user-centered design research for healthcare with a view to achieving a positive impact on patients, care professionals, and the healthcare system. This article collection addresses current development trends relating to user-centered digital healthcare innovation based on machine learning and immersive technologies in order to identify opportunities associated with the deployment of new solutions in a range of environments, including clinical, domestic, and educational settings, and barriers to the adoption of technology by end users. A key aim is to identify opportunities for strengthening interdisciplinary collaboration as well as methods of lowering barriers and overcoming obstacles for the benefit of patients, care professionals, and the healthcare system. Examples of potential outcomes are effective design and use of solutions based on machine learning and immersive technologies to improve user experience, strategies to facilitate ethical development of digital technology for healthcare, and methods of encouraging adoption of advanced tools developed in line with principles of equity and fairness. Articles should address issues of user-centered digital healthcare innovation driven by machine learning and immersive technologies. Submissions should ideally be positioned at the intersection of digital technology development with user-centered design, although contributions more technical in nature as well as user experience studies are also welcome. A non-exhaustive list of suitable topics and manuscript types is given below: Machine learning and/or immersive technologies including augmented reality and virtual reality for user-centered digital healthcare; Clinical decision support systems; Patient-facing applications; Tools for education and training of future medical professionals; Potential barriers to adoption of technology; issues of user experience, trust, equity, and fairness in digital healthcare; Reviews and contributions discussing the development of intuitive, accessible, and inclusive digital interfaces. All aspects of healthcare that are being or have the potential to be impacted by machine learning and immersive technologies.

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