

Types of Chemical Reactions Worksheet #1

H/Chemistry

For each of the following equations, identify what kind of reaction it represents: double replacement, single replacement, decomposition, or synthesis (composition).

- 1) $2\text{Mg} + \text{O}_2 \rightarrow 2\text{MgO}$ **Synthesis**
- 2) $\text{CaI}_2 + \text{Cl}_2 \rightarrow \text{CaCl}_2 + \text{I}_2$ **Single Replacement**
- 3) $3\text{KOH} + \text{AlCl}_3 \rightarrow \text{Al(OH)}_3 + 3\text{KCl}$ **Double Replacement**
- 4) $\text{C} + \text{O}_2 \rightarrow \text{CO}_2$ **Synthesis**
- *5) $\text{Ca(OH)}_2 + 2\text{HCl} \rightarrow \text{CaCl}_2 + 2\text{H}_2\text{O}$ **Double Replacement**
- 6) $2\text{KClO}_3 \rightarrow 2\text{KCl} + 3\text{O}_2$ **Decomposition**
- 7) $3\text{CuSO}_4 + 2\text{Al} \rightarrow \text{Al}_2(\text{SO}_4)_3 + 3\text{Cu}$ **Single Replacement**
- 8) $\text{Na}_2\text{S} + 2\text{AgNO}_3 \rightarrow 2\text{NaNO}_3 + \text{Ag}_2\text{S}$ **Double Replacement**
- 9) $3\text{H}_2 + \text{N}_2 \rightarrow 2\text{NH}_3$ **Synthesis**
- *10) $2\text{Na} + 2\text{H}_2\text{O} \rightarrow 2\text{NaOH} + \text{H}_2$ **Single Replacement**

*Remember: "H₂O" can also be thought of as "HOH"

Complete each of the following equations as needed to make it the type of reaction indicated. Be sure to write each formula correctly.

- 11) Double replacement: $\text{Na}_2\text{CrO}_4 + \text{PbCl}_2 \rightarrow 2\text{NaCl} + \text{PbCrO}_4$
- 12) Single replacement: $\text{Cl}_2 + 2\text{NaBr} \rightarrow 2\text{NaCl} + \text{Br}_2$
- 13) Decomposition: $\text{Mg(ClO}_3)_2 \rightarrow \text{MgCl}_2 + 3\text{O}_2$
- 14) Synthesis: $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$
- 15) Double replacement: $3\text{Ca(OH)}_2 + 2\text{FeCl}_3 \rightarrow 2\text{Fe(OH)}_3 + 3\text{CaCl}_2$
- 16) Single replacement: $\text{Fe} + \text{Cu(NO}_3)_2 \rightarrow \text{Fe(NO}_3)_2 + \text{Cu}$ [Assume Fe²⁺]
- 17) Decomposition: $2\text{Hg}_2\text{O} \rightarrow 4\text{Hg} + \text{O}_2$
- 18) Synthesis: $\text{S} + \text{O}_2 \rightarrow \text{SO}_2$
- 19) Double replacement: $\text{AgNO}_3 + \text{KI} \rightarrow \text{AgI} + \text{KNO}_3$
- 20) Single replacement: $\text{Cu} + 2\text{AgNO}_3 \rightarrow 2\text{Ag} + \text{Cu(NO}_3)_2$ [Copper (II) is used here]

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OECD Series on Testing and Assessment Guidance Document on Aquatic Toxicity Testing of Difficult Substances and Mixtures OECD, 2019-05-16 This document provides the second edition of Guidance Document 23 on Aqueous Phase Aquatic Toxicity Testing of Difficult Test Chemicals Sittig's Handbook of Toxic and Hazardous Chemicals and Carcinogens Richard P. Pohanish, 2012 For more than a quarter century Sittig's Handbook of Toxic and Hazardous Chemicals and Carcinogens has proven to be among the most reliable easy to use and essential reference works on hazardous materials Sittig's 5th Edition remains the lone comprehensive work providing a vast array of critical information on the 2 100 most heavily used transported and regulated chemical substances of both occupational and environmental concern Information is the most vital resource anyone can have when dealing with potential hazardous substance accidents or acts of terror Sittig's provides extensive data for each of the 2 100 chemicals in a uniform format enabling fast and accurate decisions in any situation The chemicals are presented alphabetically and classified as a carcinogen hazardous substance hazardous waste or toxic pollutant This new edition contains extensively expanded information in all 28 fields for each chemical see table of contents and has been updated to keep pace with world events Chemicals classified as WMD have been included in the new edition as has more information frequently queried by first responders and frontline industrial safety personnel Sittig's Handbook is a globally recognized reference source providing full listings of the 2 000 most common hazardous chemicals making it the essential handbook for first line response to chemical spills and day to day chemical plant reference Entries have a full range of synonyms for each chemical including trade names to avoid confusion and enable quick and accurate location of the right information Authoritative and frequently updated Sittig provides a fully accurate source of information that engineers and emergency response services look to as a highly dependable reference both for emergencies and day to day engineering decisions *Environmental Toxicology* Mr. Rohit Manglik, 2023-07-23 Toxic substances and environmental impact Includes toxicity exposure and health effects essential for environmental health and risk assessment studies **Resources in education** ,1986-07 *Environmental Toxicology and Chemistry* ,2006 *Chemical Risk Assessment* Peter Fisk, 2013-10-28 This book is an essential guide and support to understanding of the science and policy procedure and practice that underpins the REACH risk assessments required for the use and placing on the market of chemicals in the European Union A clear understanding of information provision and how this affects the assessment of chemical safety is fundamentally important to the success of policy on chemicals and ultimately to the sustainability of the chemicals industry Within the book the scientific processes that underpin the policy are explained in a practical way Importantly it includes coverage of techniques to help solve the problems of using potentially risky and hazardous chemicals through the use of less hazardous alternatives and green chemistry and also the analysis of the risks of the use of the most hazardous substances against the social and economic benefits of use Chemical Risk Assessment A Manual for REACH covers

the following main themes i Assessment of chemical risk ii Risk management iii Hazard reduction substitution and green chemistry iv Risk versus benefit socio economic analysis The book acts as a practical guide and overview to chemicals risk assessment and risk management in the EU context as well as a support text for planning for the challenges of the future which will see ever increasing pressure to withdraw hazardous substances from the EU and global market balanced against opportunities for innovation in the development of less hazardous chemicals

The Use of Dispersants in Marine Oil Spill Response National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Ocean Studies Board, Committee on the Evaluation of the Use of Chemical Dispersants in Oil Spill Response, 2020-05-24 Whether the result of an oil well blowout vessel collision or grounding leaking pipeline or other incident at sea each marine oil spill will present unique circumstances and challenges The oil type and properties location time of year duration of spill water depth environmental conditions affected biomes potential human community impact and available resources may vary significantly Also each spill may be governed by policy guidelines such as those set forth in the National Response Plan Regional Response Plans or Area Contingency Plans To respond effectively to the specific conditions presented during an oil spill spill responders have used a variety of response options including mechanical recovery of oil using skimmers and booms in situ burning of oil monitored natural attenuation of oil and dispersion of oil by chemical dispersants Because each response method has advantages and disadvantages it is important to understand specific scenarios where a net benefit may be achieved by using a particular tool or combination of tools This report builds on two previous National Research Council reports on dispersant use to provide a current understanding of the state of science and to inform future marine oil spill response operations The response to the 2010 Deepwater Horizon spill included an unprecedented use of dispersants via both surface application and subsea injection The magnitude of the spill stimulated interest and funding for research on oil spill response and dispersant use in particular This study assesses the effects and efficacy of dispersants as an oil spill response tool and evaluates trade offs associated with dispersant use

Resources for Teaching Middle School Science Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five

chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents

Chemical Warfare Agents Timothy T. Marrs, Robert L. Maynard, Frederick Sidell, 2007-04-04 *Chemical Warfare Agents* Second Edition has been totally revised since the successful first edition and expanded to about three times the length with many new chapters and much more in depth consideration of all the topics The chapters have been written by distinguished international experts in various aspects of chemical warfare agents and edited by an experienced team to produce a clear review of the field The book now contains a wealth of material on the mechanisms of action of the major chemical warfare agents including the nerve agent cyclosarin formally considered to be of secondary importance as well as ricin and abrin *Chemical Warfare Agents* Second Edition discusses the physico chemical properties of chemical warfare agents their dispersion and fate in the environment their toxicology and management of their effects on humans decontamination and protective equipment New chapters cover the experience gained after the use of sarin to attack travellers on the Tokyo subway and how to deal with the outcome of the deployment of riot control agents such as CS gas This book provides a comprehensive review of chemical warfare agents assessing all available evidence regarding the medical technical and legal aspects of their use It is an invaluable reference work for physicians public health planners regulators and any other professionals involved in this field Review of the First Edition What more appropriate time for a title of this scope than in the post 9 11 era a timely scholarly and well written volume which offers much information of immense current and future benefit

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Integrative Toxicogenomics: Analytical Strategies to Amalgamate Exposure Effects with Genomic Sciences Pierre R. Bushel,Weida Tong,2019-04-09 Toxicogenomics combines the use of toxicology and genomic sciences to elucidate chemical toxic and environmental stressor effects on biological systems Integrative toxicogenomics requires innovation in bioinformatics statistics and systems toxicology and typically a combination of the utility of two of more of these disciplines to better understand molecular mechanisms involved in toxic responses This Frontiers in Toxicogenomics Research Topic eBook focuses on integrative toxicogenomics more so at the late stage analyzing each data set separately and then merging the results and brings together analyses that combine gene expression microarray TempO Seq or RNA Seq with other data biological assays clinical chemistry therapeutic categories or molecular pathways or highlights data analytics that leverage bioinformatics and statistics The eight articles illustrate the state of art in the field and the analysis of toxicogenomics data for a more comprehensive deduction of biological mechanisms and cellular functions associated with adverse outcomes from environmental exposures chemicals and toxicants However it is clear that the field of integrative toxicogenomics needs considerably more attention paid to it in order to develop other clever ways of integrating the data for analysis **Risk**

Assessment of Chemicals: An Introduction C.J. van Leeuwen, J.L.M. Hermens, 2012-12-06 In recent years many developments have taken place in promote co operation between governments and other the field of risk assessment of chemicals Many reports parties involved in chemical safety and to provide policy have been published by national authorities industries guidance with emphasis on regional and subregional co and scientific researchers as well as by international bod operation The Inter Organization Programme for the ies such as the European Union the Organization of Sound Management of Chemicals IOMC was estab Economic Cooperation and Development OECD and lished in 1995 and provides a mechanism for the six par the joint International Programme on Chemical Safety ticipating organizations UNEP ILO FAO UNIDO WHO IPCS of the World Health Organization WHO the and OECD to better co ordinate policies and activities in International Labour Organization ILO and the United the field of chemical risk management Nations Environment Programme UNEP The present book is an introduction to risk assessment of The development and international harmonization of risk chemicals It contains basic background information on assessment methods is an important challenge In sources emissions distribution and fate processes for Agenda 21 of the United Nations Conference on exposure estimation It includes dose effects estimation Environment and Development UNCED chapter 19 is for both human health related toxicology and ecotoxicol entirely devoted to the management of chemicals For ogy as well as information on estimation methodologies one of its recommendations i e Fundamentals Of Aquatic Toxicology Gary M. Rand, 1995-10-05 This text is divided into three parts The first part describes basic toxicological concepts and methodologies used in aquatic toxicity testing including the philosophies underlying testing strategies now required to meet and support regulatory standards The second part of the book discusses various factors that affect transport transformation ultimate distribution and accumulation of chemicals in the aquatic environment along with the use of modelling to predict fate The final section of the book reviews types of effects or endpoints evaluated in field studies and the use of structure activity relationships in aquatic toxicology to predict biological activity and physio chemical properties of a chemical This section also contains an extensive background of environmental legislation in the USA and within the European Community and an introduction to hazard risk assessment with case studies Journal of the Society of Chemical Industry Society of Chemical Industry (Great Britain), 1899 Includes list of members 1882 1902 and proceedings of the annual meetings and various supplements **EPA Publications Bibliography** **Quarterly Abstract Bulletin** United States. Environmental Protection Agency, 1999-10

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