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## PHYSICAL SCIENCES PAPER 2 (CHEMISTRY)

GRADE 12

### TERMS & DEFINITIONS, QUESTIONS & ANSWERS PER TOPIC

2021



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**J Dewey**



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and draw their thinking sometimes direct observation and in other instances their memories The result is a collection of research and essays that offer theory techniques outcomes and models for the reader Young children have provided evidence of the perceptions that they have accumulated from families and the media before they reach classrooms Secondary students describe their ideas of chemistry and physics Teacher educators use drawings to consider the progress of their undergraduates understanding of science teaching and even their moral ethical responses to teaching about climate change Museum visitors have drawn their understanding of the physics of how exhibit sounds are transmitted A physician explains how the history of drawing has been a critical tool to medical education and doctor patient communications Each chapter contains samples insights and where applicable analysis techniques The chapters in this book should be helpful to researchers and teachers alike across the teaching and learning continuum The sections are divided by the kinds of activities for which drawing has historically been used in science education An instance of observation Audubon Linnaeus A process how plants grow over time what happens when chemicals combine Conceptions of what science is and who does it Images of identity development in science teaching and learning

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*Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles*  
National Research Council,Division on Engineering and Physical Sciences,Board on Energy and Environmental Systems,Committee on the Assessment of Technologies for Improving Fuel Economy of Light-Duty Vehicles, Phase 2,2015-09-28 The light duty vehicle fleet is expected to undergo substantial technological changes over the next several decades New powertrain designs alternative fuels advanced materials and significant changes to the vehicle body are being driven by increasingly stringent fuel economy and greenhouse gas emission standards By the end of the next decade cars and light duty trucks will be more fuel efficient weigh less emit less air pollutants have more safety features and will be more expensive to purchase relative to current vehicles Though the gasoline powered spark ignition engine will continue to be the dominant powertrain configuration even through 2030 such vehicles will be equipped with advanced technologies materials electronics and controls and aerodynamics And by 2030 the deployment of alternative methods to propel and fuel vehicles

and alternative modes of transportation including autonomous vehicles will be well underway What are these new technologies how will they work and will some technologies be more effective than others Written to inform The United States Department of Transportation s National Highway Traffic Safety Administration NHTSA and Environmental Protection Agency EPA Corporate Average Fuel Economy CAFE and greenhouse gas GHG emission standards this new report from the National Research Council is a technical evaluation of costs benefits and implementation issues of fuel reduction technologies for next generation light duty vehicles Cost Effectiveness and Deployment of Fuel Economy Technologies for Light Duty Vehicles estimates the cost potential efficiency improvements and barriers to commercial deployment of technologies that might be employed from 2020 to 2030 This report describes these promising technologies and makes recommendations for their inclusion on the list of technologies applicable for the 2017 2025 CAFE standards

**Handbook of Biofuels Production** Rafael Luque,James Clark,2010-11-25 In response to the global increase in the use of biofuels as substitute transportation fuels advanced chemical biochemical and thermochemical biofuels production routes are fast being developed Research and development in this field is aimed at improving the quality and environmental impact of biofuels production as well as the overall efficiency and output of biofuels production plants The range of biofuels has also increased to supplement bioethanol and biodiesel production with market developments leading to the increased production and utilisation of such biofuels as biosyngas biohydrogen and biobutanol among others Handbook of biofuels production provides a comprehensive and systematic reference on the range of biomass conversion processes and technology Part one reviews the key issues in the biofuels production chain including feedstocks sustainability assessment and policy development Part two reviews chemical and biochemical conversion and in turn Part three reviews thermal and thermo chemical conversion with both sections detailing the wide range of processes and technologies applicable to the production of first second and third generation biofuels Finally Part four reviews developments in the integration of biofuels production including biorefineries and by product valorisation as well as the utilisation of biofuels in diesel engines With its distinguished international team of contributors Handbook of biofuels production is a standard reference for biofuels production engineers industrial chemists and biochemists plant scientists academics and researchers in this area A comprehensive and systematic reference on the range of biomass conversion processes and technologies Addresses the key issues in the biofuels production chain including feedstocks sustainability assessment and policy development Reviews chemical and bio chemical conversion techniques as well as thermal and thermo chemical conversion detailing the range of processes and technologies applicable to biofuels production

**The Philosopher's Stone for Sustainability** Yoshiki Shimomura,Koji Kimita,2012-09-19 Industrial Product Service Systems IPS2 which is defined as an integrated industrial product and service offering that delivers value in use has expanded rapidly over the last decade IPS2 has allowed us to achieve both high added value and high productivity and has enriched our QOL by improving the performance of products and services We are now struggling

with many awkward issues related to sustainability but IPS2 is expected to be the philosopher's stone for solving these issues. Following the pattern of conferences held in Cranfield in 2009, Linköping in 2010 and Braunschweig in 2011, the fourth International CIRP Conference on Industrial Product Service Systems held on November 8-9, 2012 in Tokyo will cover various aspects of IPS2. Topics planned for this year's conference reflect the latest IPS2 information in both the natural sciences and humanities and include case studies from various industries. IPS2 is still a relatively new field so it is important to keep track of the entire context in order to promote more cross-sectional cooperation between multimodal fields and disciplines. The fourth International CIRP Conference on Industrial Product Service Systems will serve as a vital platform for such collaborations and the discussion of new scientific ideas.

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