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EASTERN CAPE
EDUCATION

BUFFALO CITY METRO DISTRICT

GRADE 10

PHYSICAL SCIENCES (PHYSICS P1)

OCTOBER 2023

MEMORANDUM

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Memorandum Physical Science Paper Exemplar 2013

Disha Experts



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The Secure and the Dispossessed Nick Buxton, Ben Hayes, 2015-11-20 While the world's scientists and many of its inhabitants despair at the impact of climate change corporate and military leaders see nothing but opportunities For them melting ice caps mean newly accessible fossil fuels borders to be secured from climate refugees social conflicts to be managed and more failed states in which to intervene They are securing their assets at the expense of the planet and its inhabitants The Secure and the Dispossessed looks at these deadly approaches with a critical eye It also considers the flip side that the legitimacy of the elite is under unprecedented pressure from resistance by communities to resource grabs to those creating new ecological and socially just models for managing our energy food and water Topics covered include geoengineering militarism refugee protection greenwashing and the agricultural crisis among others Adaptation and resilience to a climate changed world is desperately needed but the form it will take will affect all of our futures

Strengthening the Disaster Resilience of the Academic Biomedical Research Community National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Health and Medicine Division, Institute for Laboratory Animal Research, Board on Earth Sciences and Resources, Board on Health Sciences Policy, Committee on Strengthening the Disaster Resilience of Academic Research Communities, 2017-11-20 The academic biomedical research community is a hub of employment economic productivity and scientific progress Academic research institutions are drivers of economic development in their local and state economies and by extension the national economy Beyond the economic input that the academic biomedical research community both receives and provides it generates knowledge that in turn affects society in myriad ways The United States has experienced and continues to face the threat of disasters and like all entities the academic biomedical research community can be affected Recent disasters from hurricanes to cyber attacks and their consequences have shown that the investments of the federal government and of the many other entities that sponsor academic research are not uniformly secure First and foremost events that damage biomedical laboratories and the institutions that house them can have impacts on the safety and well being of humans and research animals Furthermore disasters can affect career trajectories scientific progress and financial stability at the individual and institutional levels Strengthening the Disaster Resilience of the Academic Biomedical Research Community offers recommendations and guidance to enhance the disaster resilience of the academic biomedical research community with a special focus on the potential actions researchers academic research institutions and research sponsors can take to mitigate the impact of future disasters

The quantification of the key physics parameters for the DEMO fusion power reactor and analysis of the reactor relevant physics issues Igitkhanov, Yu., Bazylev, B., Fetzer, R., 2015-01-20 Training Students to Extract Value from Big Data National Research Council, Division on Engineering and Physical Sciences, Board on Mathematical Sciences and Their Applications, Committee on Applied and Theoretical Statistics, 2015-01-16 As the availability of high

throughput data collection technologies such as information sensing mobile devices remote sensing internet log records and wireless sensor networks has grown science engineering and business have rapidly transitioned from striving to develop information from scant data to a situation in which the challenge is now that the amount of information exceeds a human's ability to examine let alone absorb it Data sets are increasingly complex and this potentially increases the problems associated with such concerns as missing information and other quality concerns data heterogeneity and differing data formats The nation's ability to make use of data depends heavily on the availability of a workforce that is properly trained and ready to tackle high need areas Training students to be capable in exploiting big data requires experience with statistical analysis machine learning and computational infrastructure that permits the real problems associated with massive data to be revealed and ultimately addressed Analysis of big data requires cross disciplinary skills including the ability to make modeling decisions while balancing trade offs between optimization and approximation all while being attentive to useful metrics and system robustness To develop those skills in students it is important to identify whom to teach that is the educational background experience and characteristics of a prospective data science student what to teach that is the technical and practical content that should be taught to the student and how to teach that is the structure and organization of a data science program Training Students to Extract Value from Big Data summarizes a workshop convened in April 2014 by the National Research Council's Committee on Applied and Theoretical Statistics to explore how best to train students to use big data The workshop explored the need for training and curricula and coursework that should be included One impetus for the workshop was the current fragmented view of what is meant by analysis of big data data analytics or data science New graduate programs are introduced regularly and they have their own notions of what is meant by those terms and most important of what students need to know to be proficient in data intensive work This report provides a variety of perspectives about those elements and about their integration into courses and curricula

Leisure and Pleasure Caroline Daley, 2013-10-01 This exploration of an unexpected aspect of New Zealand social history examines the human body at leisure in the years 1900 growing ideas about fitness health and exercise the rise of beauty contests the culture of the beach and the pool nudism and children's play and the appearance of playgrounds The central aim is to explore how bodies men's women's and children's were shaped and displayed through various leisure pursuits in 20th century New Zealand

Open Science by Design National Academies of Sciences, Engineering, and Medicine, Policy and Global Affairs, Board on Research Data and Information, Committee on Toward an Open Science Enterprise, 2018-08-09 Openness and sharing of information are fundamental to the progress of science and to the effective functioning of the research enterprise The advent of scientific journals in the 17th century helped power the Scientific Revolution by allowing researchers to communicate across time and space using the technologies of that era to generate reliable knowledge more quickly and efficiently Harnessing today's stunning ongoing advances in information technologies the global research enterprise and its stakeholders are moving

toward a new open science ecosystem Open science aims to ensure the free availability and usability of scholarly publications the data that result from scholarly research and the methodologies including code or algorithms that were used to generate those data Open Science by Design is aimed at overcoming barriers and moving toward open science as the default approach across the research enterprise This report explores specific examples of open science and discusses a range of challenges focusing on stakeholder perspectives It is meant to provide guidance to the research enterprise and its stakeholders as they build strategies for achieving open science and take the next steps Bulk Collection of Signals Intelligence National

Research Council, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Committee on Responding to Section 5(d) of Presidential Policy Directive 28: The Feasibility of Software to Provide Alternatives to Bulk Signals Intelligence Collection, 2015-03-24 The Bulk Collection of Signals Intelligence Technical Options study is a result of an activity called for in Presidential Policy Directive 28 PPD 28 issued by President Obama in January 2014 to evaluate U S signals intelligence practices The directive instructed the Office of the Director of National Intelligence ODNI to produce a report within one year assessing the feasibility of creating software that would allow the intelligence community more easily to conduct targeted information acquisition rather than bulk collection ODNI asked the National Research Council NRC the operating arm of the National Academy of Sciences and National Academy of Engineering to conduct a study which began in June 2014 to assist in preparing a response to the President Over the ensuing months a committee of experts appointed by the Research Council produced the report **Guide to English & Logical Reasoning**

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Well Worth Saving Laurel Leff, 2019-12-03 A harrowing account of the profoundly consequential decisions American universities made about refugee scholars from Nazi dominated Europe a finalist for a 2020 National Jewish Book Award The United States role in saving Europe's intellectual elite from the Nazis is often told as a tale of triumph which in many ways it was America welcomed Albert Einstein and Enrico Fermi Hannah Arendt and Herbert Marcuse Rudolf Carnap and Richard Courant among hundreds of other physicists philosophers mathematicians historians chemists and linguists who transformed the American academy Yet for every scholar who survived and thrived many many more did not To be hired by an American university a refugee scholar had to be world class and well connected not too old and not too young not too right and not too left and most important not too Jewish Those who were unable to flee were left to face the horrors of the Holocaust In this rigorously researched book Laurel Leff rescues from obscurity scholars who were deemed not worth saving and tells the riveting full story of the hiring decisions universities made during the Nazi era

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 $8.3 \text{ mole H}_2\text{S} \times \frac{2 \text{ mole H}_2\text{O}}{2 \text{ mole H}_2\text{S}} = 8.3 \text{ mole H}_2\text{O}$
8.3 mole H₂S $\times$ 18g H₂O / 1 mole H₂O = 149.4g H₂O is your theoretical yield so percent yield = $\frac{137.1\text{g H}_2\text{O}}{149.4\text{g H}_2\text{O}} \times 100 = 91.77\%$
problems 6 & 8 are similar to problem 5

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web 1 csun.edu/hcchm001/introchemhandouts.html limiting reagents theoretical actual and percent yields example of a limiting reagent problem how many grams of NH₃ can be produced theoretically from the reaction of 5.0 g of N
 $\text{N}_2 + 3\text{H}_2 \rightarrow 2\text{NH}_3$
what is the limiting reagent if 8.52 g are actually formed what is the

answer key for percentage yield limiting reagents - Apr 30 2022

web limiting reagents problem one 1 for the balanced equation
 $\text{C}_3\text{H}_6 + 3\text{O}_2 \rightarrow 3\text{CO} + 3\text{H}_2\text{O}$
if the reaction of 21.3 grams of O₂ produces a 47.3% yield how many grams of CO would be produced
step one figure out how many moles of the limiting reagent you have
 $\frac{21.3 \text{ g O}_2}{32 \text{ g/mol}} = 0.6656 \text{ moles O}_2$

experiment 4 stoichiometry limiting reagents yield making - Feb 26 2022

web percent yield is a measure of the efficiency of the experimental design
 $\text{yield} = \frac{\text{mass of product obtained}}{\text{calculated mass of the product expected}} \times 100$
in this reaction a yield of 80% is anticipated

w limiting reagents and percent yield hw1 answer key - Nov 06 2022

web a write a balanced equation for the reaction
 $\text{Al} + \text{O}_2 \rightarrow \text{Al}_2\text{O}_3$
4 Al + 3 O₂ $\rightarrow$ 2 Al₂O₃
b determine the theoretical yield of Al₂O₃
 $\frac{160.0 \text{ g Al}}{27 \text{ g/mol}} = 5.926 \text{ mol Al}$
 $\frac{5.926 \text{ mol Al}}{4} \times 2 = 2.963 \text{ mol Al}_2\text{O}_3$
 $2.963 \text{ mol Al}_2\text{O}_3 \times 101.96 \text{ g/mol} = 302.3 \text{ g Al}_2\text{O}_3$
c determine the percent yield
 $\frac{260.0 \text{ g}}{302.3 \text{ g}} \times 100 = 86.01\%$

7.2 limiting reagent and reaction yields chem 1114 - Jul 02 2022

web 7 Na₂C₂O₄ is the limiting reactant percent yield = 86.68% only four molecules can be made 9 this amount cannot be weighted by ordinary balances and is worthless 10 nitrogen is the limiting reagent 11 yes methane is the limiting reagent 12 C is the limiting reagent 4 33 g of H₂ are left over 13

6.5 limiting reagent and percent yield chemistry libretexts - Aug 15 2023

web learning objectives define and determine theoretical yields actual yields and percent yields identify a limiting reagent from a set of reactants calculate how much product will be produced from the limiting reagent calculate how much reactant remains when the reaction is complete

limiting reactant and reaction yields article khan academy - Jan 08 2023

web the percent yield is calculated as follows $\text{percent yield} = \frac{\text{actual yield}}{\text{theoretical yield}} \times 100$ based on this definition we would expect a percent yield

8 5 limiting reactant theoretical yield and percent yield - Dec 07 2022

web may 20 2018 learning objectives identify the limiting reactant limiting reagent in a given chemical reaction calculate how much product will be produced from the limiting reactant calculate how much reactant s remains when the reaction is complete

12 3 limiting reagent and percent yield worksheet answer key - Jan 28 2022

web limiting reagent and percent yield practice worksheet answer key limiting reactant yield practice worksheet 1 methanol CH_3OH can be produced by the following reaction $2\text{H}_2 + \text{CO} \rightarrow \text{CH}_3\text{OH}$ calculate the theoretical yield of CH_3OH if 68.5 g of CO is reacted with 8.6 g of H_2

limiting reactant and percent yield worksheet with key - Oct 05 2022

web honors chemistry 1b limit reactant and percent yield worksheet with excess calculation name sto 4 solve stoichiometric problems from a balanced chemical equation 3 sto 5 differentiate between the actual yield and theoretical yield of a chemical reaction

limiting reactant and percent yield practice hs science - Jun 01 2022

web limiting reactant and percent yield practice name 1 consider the following reaction $\text{NH}_4\text{NO}_3 + \text{Na}_3\text{PO}_4 \rightarrow \text{NH}_4\text{PO}_4 + \text{NaNO}_3$ which reactant is limiting assuming we started with 30.0 grams of ammonium nitrate and 50.0 grams of sodium phosphate what is the

limiting reagents and percentage yield worksheet answers - Sep 04 2022

web limiting reagents and percentage yield worksheet 1 consider the reaction $\text{I}_2\text{O}_5 + 5\text{CO} \rightarrow 5\text{CO}_2 + \text{I}_2$ a 80.0 grams of iodine v oxide I_2O_5 reacts with 28.0 grams of carbon monoxide CO determine the mass of iodine I_2 which could be produced $80\text{ g I}_2\text{O}_5 \times \frac{1\text{ mol I}_2\text{O}_5}{1\text{ mol I}_2\text{O}_5} \times \frac{1\text{ mol I}_2}{1\text{ mol I}_2\text{O}_5} \times \frac{333.8\text{ g I}_2}{1\text{ mol I}_2\text{O}_5} = 28\text{ g CO} \times \frac{1\text{ mol CO}}{28\text{ g CO}} \times \frac{1\text{ mol I}_2}{1\text{ mol CO}} = 1\text{ mol I}_2$

7 3 limiting reactant and percent yield problems - Jun 13 2023

web jun 2 2020 the percent yield of a reaction is the ratio of the actual yield to the theoretical yield multiplied by 100 to give a percentage $\text{percent yield} = \frac{\text{actual yield}}{\text{theoretical yield}} \times 100$ label 3 7 3