



# **NATIONAL SENIOR CERTIFICATE**

**GRADE 11**

**NOVEMBER 2023**

## **MATHEMATICAL LITERACY P2 MARKING GUIDELINE**

**MARKS: 100**

<b>Symbol</b>	<b>Explanation</b>
M	Method
MA	Method with accuracy
CA	Consistent accuracy
RCA	Rounding consistent accuracy
A	Accuracy
C	Conversion
S	Simplification
SF	Correct substitution in a formula
J	Justification
O	Opinion/Example/Definition/Explanation/Justification/Verification
RT/RG/RM	Reading from a table/graph/map
P	Penalty, e.g. for no units, incorrect rounding off etc.
R	Rounding off
NPR	No penalty rounding or omitting units
AO	Answer only, full marks

**This marking guideline consists of 9 pages.**

# Memorandum Of Grd11 Maths P2 November Exam

**Duard Le Roux**



**Memorandum Of Grd11 Maths P2 November Exam:**

**Maths Gr. 11** Duard Le Roux,2024      Keys Andrea Morgan,2018

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## **Table of Contents Memorandum Of Grd11 Maths P2 November Exam**

1. Understanding the eBook Memorandum Of Grd11 Maths P2 November Exam
  - The Rise of Digital Reading Memorandum Of Grd11 Maths P2 November Exam
  - Advantages of eBooks Over Traditional Books
2. Identifying Memorandum Of Grd11 Maths P2 November Exam
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Memorandum Of Grd11 Maths P2 November Exam
  - User-Friendly Interface
4. Exploring eBook Recommendations from Memorandum Of Grd11 Maths P2 November Exam
  - Personalized Recommendations
  - Memorandum Of Grd11 Maths P2 November Exam User Reviews and Ratings
  - Memorandum Of Grd11 Maths P2 November Exam and Bestseller Lists
5. Accessing Memorandum Of Grd11 Maths P2 November Exam Free and Paid eBooks
  - Memorandum Of Grd11 Maths P2 November Exam Public Domain eBooks
  - Memorandum Of Grd11 Maths P2 November Exam eBook Subscription Services
  - Memorandum Of Grd11 Maths P2 November Exam Budget-Friendly Options

6. Navigating Memorandum Of Grd11 Maths P2 November Exam eBook Formats
  - ePub, PDF, MOBI, and More
  - Memorandum Of Grd11 Maths P2 November Exam Compatibility with Devices
  - Memorandum Of Grd11 Maths P2 November Exam Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Memorandum Of Grd11 Maths P2 November Exam
  - Highlighting and Note-Taking Memorandum Of Grd11 Maths P2 November Exam
  - Interactive Elements Memorandum Of Grd11 Maths P2 November Exam
8. Staying Engaged with Memorandum Of Grd11 Maths P2 November Exam
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Memorandum Of Grd11 Maths P2 November Exam
9. Balancing eBooks and Physical Books Memorandum Of Grd11 Maths P2 November Exam
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Memorandum Of Grd11 Maths P2 November Exam
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Memorandum Of Grd11 Maths P2 November Exam
  - Setting Reading Goals Memorandum Of Grd11 Maths P2 November Exam
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Memorandum Of Grd11 Maths P2 November Exam
  - Fact-Checking eBook Content of Memorandum Of Grd11 Maths P2 November Exam
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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web también conocido como el orejas tiene las orejas tan grandes que en cualquier momento parece que va a echar a volar es un buen portero y aunque no se mueve mucho para bastantes goles sus dos hermanos mayores también son porteros pero él no deja de repetir soy el mejor portero de la familia con el número 2 angustias lateral

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web jan 26 2016 the solubility product or ksp is a way of showing how effective a chemical is at dissolving into an aqueous solution the higher the ksp the more the chemical will dissolve into that solvent for this lab calcium hydroxide is created then ionized  $\text{Ca(OH)}_2$  when calcium is put in water reacts as follows  $\text{Ca} + 2\text{H}_2\text{O} \rightarrow \text{Ca(OH)}_2 + \text{H}_2$

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web k sp of calcium hydroxide 1 author j m mccormick last update october 13 2013 introduction an equilibrium constant  $K$  is related to  $\Delta G$  for a process through eqn 1 and as long as  $\Delta H$  and  $\Delta S$  are independent of temperature eqn 1 can be combined with eqn 2 to determine  $\Delta H$  and  $\Delta S$  from the temperature dependence of  $K$

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web sep 18 2020 in this experiment we will titrate a saturated calcium hydroxide solution with a standardized hcl solution we will determine the hydroxide ion concentration for the saturated calcium hydroxide

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web your primary objective in this experiment is to test a saturated solution of calcium hydroxide and use your observations and measurements to calculate the ksp of the compound you will do this by titrating the prepared  $\text{Ca(OH)}_2$  solution with a standard hydrochloric acid solution

**chem 114 exp 9 mike university of rhode island** - May 04 2023

web in today's experiment you will determine the solubility product ksp of calcium hydroxide  $\text{Ca(OH)}_2$  by measuring the concentration of  $\text{Ca(OH)}_2$  in a saturated solution calcium hydroxide is a sparingly soluble salt that dissolves according to the following reaction the solubility product expression for this reaction is

*solved chem 182 determining the ksp of calcium hydroxide chegg* - Feb 18 2022

web expert verified chem 182 determining the ksp of calcium hydroxide calcium hydroxide is an ionic solid that is sparingly soluble in water a saturated aqueous solution of  $\text{Ca(OH)}_2$  is represented in equation form as shown below  $\text{Ca(OH)}_2(\text{s}) \rightleftharpoons \text{Ca}^{2+}(\text{aq}) + 2\text{OH}^{-}(\text{aq})$  the solubility product expression describes in mathematical terms the equilibrium

ksp for calcium hydroxide university of manitoba - Dec 31 2022

web ksp for calcium hydroxide calcium hydroxide is a soft white caustic powder used in making mortar cements calcium salts paints and petrochemicals it is also used in saltwater aquaria to make up kalkwasser limewater solutions for reef tanks and is used as a pH regulating agent notice that calcium hydroxide is divalent and thus has twice

*ksp calcium hydroxide chem132 determination of the ksp of calcium* - Jun 24 2022

web use the concentration of calcium hydroxide to calculate the concentration of calcium ions and hydroxide ions in the solution  $\text{Ca(OH)}_2 \rightarrow \text{Ca}^{2+} + 2\text{OH}^{-}$   $5 \times 10^{-2} \text{ M}$  calcium ions  $5 \times 10^{-2} \text{ M}$   $2 \times 10^{-2} \text{ M}$  hydroxide ions calculate calcium hydroxide ksp using the concentrations of calcium ions and hydroxide ions

**solubility of calcium hydroxide wpmu dev** - Oct 29 2022

web madison bowe elana keller april 15 2014 introduction the objective of this lab was to measure the ksp of a slightly soluble basic salt and how solubility changes with temperature ksp is another form of equilibrium expression that deals with

solubility the reaction that will take place is  $\text{Ca(OH)}_2 \rightleftharpoons \text{Ca}^{2+} + 2\text{OH}^-$

**solved experiment 8 determining ksp for calcium hydroxide** - Aug 27 2022

web question experiment 8 determining ksp for calcium hydroxide post lab report sheet data table 2 points trial 1 trial 2 hci molarity 0.050 m volume of filtered  $\text{Ca(OH)}_2$  solution ml 5.00 5.00 3.71 13.75 equivalence point volume ml oh in saturated  $\text{Ca(OH)}_2$  m ca in saturated  $\text{Ca(OH)}_2$  m ksp of  $\text{Ca(OH)}_2$  average ksp of  $\text{Ca(OH)}_2$

chemistry 1210 lab 11 experiment 11 determining the ksp of calcium - Sep 08 2023

web the chemical equation used was  $\text{Ca(OH)}_2 \rightleftharpoons \text{Ca}^{2+} + 2\text{OH}^-$  the solubility product was determined to be ksp  $\text{Ca(OH)}_2$  from the titration which was made by dripping a concentrated solution of calcium hydroxide into hydrochloric acid the calcium hydroxide was filtered before starting the titration

18.1 solubility product constant ksp chemistry libretxts - Feb 01 2023

web jul 12 2023 because the concentration of a pure solid such as  $\text{Ca}_3(\text{PO}_4)_2$  is a constant it does not appear explicitly in the equilibrium constant expression the equilibrium constant expression for the dissolution of calcium phosphate is therefore  $K = [\text{Ca}^{2+}]^3 [\text{PO}_4^{3-}]^2$

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web lab report 8 determining of calcium hydroxide the purpose of this was to titrate a saturated  $\text{Ca(OH)}_2$  solution with a standard hcl solution and find the ksp or the oh concentration was found and then the concentration was found and u for this experiment a titration of calcium hydroxide with hydrochloric

*solved determining the ksp of calciumhydroxide* - Apr 22 2022

web question determining the ksp of calciumhydroxide  $\text{Ca(OH)}_2 \rightleftharpoons \text{Ca}^{2+} + 2\text{OH}^-$  for this experiment the titration of calciumhydroxide with hydrochloric acid was investigated determining the ksp of calcium hydroxide  $\text{Ca(OH)}_2 \rightleftharpoons \text{Ca}^{2+} + 2\text{OH}^-$  for this experiment the titration of calcium

solved chem 182 experiment 8 determining the ksp of calcium chegg - Sep 27 2022

web question chem 182 experiment 8 determining the ksp of calcium hydroxide calcium hydroxide is an ionic solid that is sparingly soluble in water solution of  $\text{Ca(OH)}_2$  is represented in equation form lution of calcium ionic solid that is sparingly soluble in water a saturated aqueous as shown below

determination of the ksp of calcium hydroxide autosaved - Jun 05 2023

web therefore it was determined through error calculations and ease of use that the most reliable valid method to use to get the closest ksp value to the theoretical ksp for calcium was the determination through ph method 2 introduction calcium hydroxide is a strong base soluble in water

exp 4 determining the solubility product constant ksp of calcium - Jul 26 2022

web plasma membrane homework symbiosis practice worksheet benzoin condensation grade a determining the ksp of calcium hydroxide after reading the lab complete items a b c and d title purpose chemicals and equipment and summary of procedure as described on page 10 of exp 1 on an 8 1 2 x 11 sheet of paper

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web question lab 9 determination of the solubility product ksp of calcium hydroxide introduction ionic compounds that are classified as insoluble based on solubility rules are actually slightly soluble each of these insoluble compounds actually dissolves to

experimental determination of the solubility product of calcium hydroxide - Nov 29 2022

web we will filter the solid calcium hydroxide from the solution and then titrate the dissolved calcium hydroxide in solution with a known concentration of hydrochloric acid using titrimetric calculations we will determine the  $\text{Ca}^{2+}$  and  $\text{OH}^{-}$  concentrations in solution

**ksp of calcium hydroxide lab report for determining the ksp of** - Oct 09 2023

web calculate the ksp for calcium hydroxide  $\text{Ca}^{2+}$   $\text{OH}^{-}$  2 0 0 2 ksp  $5 \times 10^{-4}$  find the accepted value of the ksp for calcium hydroxide and compare it with your value discuss the discrepancy and suggest possible sources of experimental error accepted value for ksp for sodium hydroxide is  $5 \times 10^{-6}$

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web purpose the purpose of this lab is to determine how the digestive enzyme amylase depends on pH for its activity materials test tubes test tube rack amylase benedict reagent starch solution maltose solution distilled water buffer pH 7 buffer pH 2 water bath pipettes glass rods sharpeners container wash bin

39 digestive system processes chemical and physical pearson - Oct 06 2022

web list the digestive system enzymes involved in the digestion of proteins fats and carbohydrates state their site of origin and summarize the conditions promoting their optimal functioning name the end products of protein fat and carbohydrate digestion define enzyme catalyst control substrate and hydrolase

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web in fact there are thousands of different enzymes in your body that work around the clock to keep you healthy and active in this science activity you will investigate one of these enzymes called catalase to find out how it helps to protect your body from cell damage

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web dec 4 2020 digestion and propulsion chemical digestion secretion absorption and defecation martini 2018 digestion is important for breaking down food into nutrients which the body uses for energy growth and cell repair food and drink must

be changed into smaller molecules of nutrients before the blood absorbs

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web question 2 bio 169 digestive lab lab activity 4 digestive enzymes fill in the blank with the term that best completes the statement catabolism of 1 is initiated within the oral cavity by the enzyme 2 1 which breaks down polysaccharides such as starch and glycogen into smaller units

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web action of a digestive enzyme purpose of the exercise to investigate the action of amylase and the effect of heat on its enzymatic activity materials needed 0 5 amylase solution beakers 50 and 500 ml distilled water funnel pipettes 1 and 10 ml pipette rubber bulbs 0 5 starch solution graduated cylinder

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web this lab consists of 4 activities activity 1 protein digestion and the effect of denaturation on enzyme activity students will perform protein digestion detect the products of protein hydrolysis and determine the effect of enzyme denaturation on protein digestion activity 2 lipid digestion and the effect of emulsification on lipid digestion

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web decreases enzyme activity explain why increasing enzyme concentration promotes enzyme activity explain why the optimal ph of a particular enzyme promotes its activity if given the optimal conditions for a particular enzyme indicate which experimental conditions using that particular enzyme would show the greatest and least enzyme activity

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web jan 19 2023 figure 1 top summary of digestion lab experimental setup in the first class period students are provided with five types of food that are expected to break down at different rates in a solution of papain the digestive enzyme using 12 glass vials the students prepare a papain group 6 vials and a tap water group 6 vials

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web may 30 2021 the following experiment will use various digestive enzymes and environmental conditions to examine the chemical digestion of foodstuff macromolecules carbohydrates lipids and proteins into the smaller molecules that comprise the macromolecules that we consume within our food

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web activity lesson lesson plan note this resource vetted by nsta curators is provided to teachers along with suggested modifications to make it more in line with the vision of the ngss

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web we will learn about three main enzymatic concepts how the presence of enzymes allows us to digest foods at a faster rate how optimal environmental factors specifically ph and temperature affect the rate of enzymatic digestion how increased surface area increases chemical digestion and how amphipathic molecules help us digest fats

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web 12 questions show answers q which substrate would this enzyme catalyze q enzymes are q this enzyme digests carbohydrate q this enzyme digests fats lipids q

