

NCERT Class 11
CHEMISTRY
LAB
MANUAL



Ncert Class 11 Chemistry Lab Manual

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Ncert Class 11 Chemistry Lab Manual:

NCERT Chemistry Class 11 - [CBSE Board] Dr. S. C. Rastogi, ,Er. Meera Goyal,2022-10-11 Syllabus Unit I Some Basic Concepts of Chemistry Unit II Structure of Atom Unit III Classification of Elements and Periodicity in Properties Unit IV Chemical Bonding and Molecular Structure Unit V States of Matter Gases and Liquids Unit VI Chemical Thermodynamics Unit VII Equilibrium Unit VIII Redox Reactions Unit IX Hydrogen Unit X s Block Elements Alkali and Alkaline earth metals Group 1 and Group 2 Elements Unit XI Some p Block Elements General Introduction to p Block Elements Unit XII Organic Chemistry Some Basic Principles and Techniques Unit XIII Hydrocarbons Classification of Hydrocarbons Unit XIV Environmental Chemistry Content 1 Some Basic Concepts of Chemistry 2 Structure of Atom 3 Classification of Elements and Periodicity in Properties 4 Chemical Bonding and Molecular Structure 5 States of Matter 6 Thermodynamics 7 Equilibrium 8 Redox Reactions 9 Hydrogen 10 s Block Elements 11 p Block Elements 12 Organic Chemistry Some Basic Principles and Techniques 13 Hydrocarbons 14 Environmental Chemistry I Appendix II Log antilog Table Practical/Laboratory Manual

Chemistry Class XI based on NCERT guidelines by Dr. S. C. Rastogi & Er. Meera Goyal Dr. S. C. Rastogi , Er. Meera Goyal,2020-06-23 An Excellent Book in Accordance with the latest syllabus for Class 11 Prescribed by CBSE NCERT and Adopted by Various State Education Boards

A Basic Laboratory Techniques 1 To cut a glass tube or glass rod 2 To bend the glass rod at an angle 3 To draw a glass jet from a glass tube 4 To bore a cork and fit a glass tube into it

B Characterisation and Purification of Chemical Substances 1 To determine the melting point of the given unknown organic compound and its identification simple laboratory technique 2 To determine the boiling point of a given liquid when available in small quantity simple laboratory method 3 To prepare crystals of pure potash alum $K_2SO_4 \cdot Al_2(SO_4)_3 \cdot 24H_2O$ from the given impure sample 4 To prepare the pure crystals of copper sulphate from the given crude sample 5 To prepare pure crystals of benzoic acid from a given impure sample

C Measurement of pH Values 1 To determine the pH value of vegetable juices fruit juices tap water and washing soda by using universal pH paper 2 To determine and compare the pH values of solutions of strong acid HCl and weak acid CH_3COOH of same concentration 3 To study the pH change in the titration of strong base Vs strong acid by using universal indicator paper 4 To study the pH change by common ion CH_3COO^- ion in case of weak acid CH_3COOH 5 To determine the change in pH value of weak base NH_4OH in presence of a common ion NH_4^+

D Chemical Equilibrium 1 To study the shift in equilibrium between ferric ions and thiocyanate ions by changing the concentrations of either of the ions 2 To study the shift in equilibrium between Co^{2+} and Cl^- ions by changing the concentrations of either of the ions

E Quantitative Analysis 1 To prepare M 10 oxalic acid solution by direct weighing method 2 To prepare M 10 solution of sodium carbonate by direct weighing method 3 To determine the strength of given solution of sodium hydroxide by titrating it against N 10 or M 20 solution of oxalic acid 4 To determine the strength of a given solution of hydrochloric acid by titrating it against a standard N 10 or M 20 sodium carbonate solution

F Qualitative Analysis 1 Analysis of Anions 2 Analysis of Cations

G Detection of Elements in Organic Compounds 1 To detect the presence of nitrogen sulphur and halogens in a given organic compound by Lassaigne's test 2 To detect the presence of nitrogen sulphur and halogens in the given organic compound sample number by Lassaigne's test INVESTIGATORY PROJECTS A Checking of Bacterial Contamination in Water 1 To check the bacterial contamination in drinking water by testing sulphide ions B Methods of Water Purification 1 To purify water from suspended impurities by using sedimentation 2 To purify water by boiling 3 To purify water by distillation method 4 To purify water by reverse osmosis technique 5 To purify water by GAC method 6 To purify water by bleach treatment 7 To purify water by oxidising agent 8 To purify water by ozone treatment method C Water Analysis 1 To test the hardness of different water samples D Foaming Capacity of Various Soaps 1 To compare the foaming capacity of different washing soaps 2 To study the effect of addition of sodium carbonate on foaming capacity of washing soap E Tea Analysis 1 To study the acidity of different samples of tea leaves tea by using pH paper F Analysis of Fruits and Vegetable Juices 1 To analyse the fruit and vegetable juices for the constituent present in them G Rate of Evaporation 1 To study the rate of evaporation of different liquids H Effect of Acids and Bases on Tensile Strength of Fibres 1 To compare the tensile strength of natural fibres and synthetic fibres 2 To study the effect of acids and bases on tensile strength of different fibres Log Antilog Table

Chemistry Class 11 - [Bihar & JAC] Dr. S. C. Rastogi, ,Er. Meera Goyal,2022-07-20 Syllabus Unit I Some Basic Concepts of Chemistry Unit II Structure of Atom Unit III Classification of Elements and Periodicity in Properties Unit IV Chemical Bonding and Molecular Structure Unit V States of Matter Gases and Liquids Unit VI Chemical Thermodynamics Unit VII Equilibrium Unit VIII Redox Reactions Unit IX Hydrogen Unit X s Block Elements Alkali and Alkaline earth metals Group 1 and Group 2 Elements Unit XI Some p Block Elements General Introduction to p Block Elements Unit XII Organic Chemistry Some Basic Principles and Techniques Unit XIII Hydrocarbons Classification of Hydrocarbons Unit XIV Environmental Chemistry Content 1 Some Basic Concepts of Chemistry 2 Structure of Atom 3 Classification of Elements and Periodicity in Properties 4 Chemical Bonding and Molecular Structure 5 States of Matter 6 Thermodynamics 7 Equilibrium 8 Redox Reactions 9 Hydrogen 10 s Block Elements 11 p Block Elements 12 Organic Chemistry Some Basic Principles and Techniques 13 Hydrocarbons 14 Environmental Chemistry I Appendix II Log antilog Table **CBSE/NCERT Jeev Vigyan -**

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□□□□□ □□□□□□□ (Chemistry) Class 11 - [Bihar & JAC] Dr. S. C. Rastogi, ,Er. Meera Goyal,2022-10-11 *Report - Educational Research and Innovations Committee, National Council of Educational Research and Training National Council of Educational Research and Training (India),1979* Oswaal One for All Class 12 English, Physics, Chemistry & Mathematics (Set of 4 books) (For CBSE Board Exam 2024) Oswaal Editorial Board,2023-07-31 Description of the product Strictly as per the latest CBSE Syllabus dated March 31 2023 Cir No Acad 39 2023 Acad45 2023 100 % Updated for 2023 24 with Latest Rationalised NCERT Textbooks Concept Clarity with Concept wise Revision Notes Mind Maps Mnemonics 100% Exam Readiness with Previous Year s Questions Board Marking Scheme Answers Valuable Exam Insights with 3000 NCERT Exemplar Questions Extensive Practice with Unit Wise Self Assessment Questions Practice Papers NEP Compliance with Competency based questions Jeev Vigyan - □□□ □□□□□□□ - Biology Class 11 Dr. Sunita Bhagia, ,Megha Bansal,2023-06-15 1 The Living World 2 Biological Classification 3 Plant Kingdom 4 Animal Kingdom 5 Morphology Of Flowering Plants 6 Anatomy Of Flowering Plants 7 Structural Organisation In Animals 8 Cell The Unit Of Life 9 Biomolecules 10 Cell Cycle And Cell Division 11 Transport In Plants 12 Mineral Nutrition in Plants 13 Photosynthesis In Higher Plants 14 Respiration In Plants 15 Plant Growth And Development 16 Digestion And Absorption 17 Breathing And Exchange Of Gases 18 Body Fluids And Circulation 19 Excretory Products And Their Elimination 20 Locomotion And Movements 21 Neural Control And Coordination 22 Chemical Co ordination And Integration **NEP Jeev vigyan** □□□ □□□□□□□ **Biology Class 11 Scorer Guru Publications** Megha Bansal ,Sunita Bhagiya,2023-11-30 1 The Living World 2 Classification of Living Beings 3 Plant Kingdom 4 Animal Kingdom 5 Morphology of Flowering Plants 6 Anatomy of Flowering Plants 7 Structural Organization in Animals 8 Cell Structural and Functional Unit 9 Biomolecules 10 Cell Cycle and Cell Division 11 Transportation in Plants 12 Mineral Nutrition in Plants 13 Photosynthesis in Higher Plants 14 Respiration in Plants 15 Growth and Development in Plants 16 Digestion and Absorption 17 Respiration and Gaseous Exchange 18 Circulation of Body Fluid 19 Excretory Products and their Excretion 20 Locomotion and Movement 21 Nervous Control and Co ordination 22 Chemical Co ordinations and Controlling **Xam Success Bhautik Vigyan** □□□□□□ □□□□□□□ **Physics Class 11** Dr. J. P. Goyal, ,D. C. Upadhyay,Er. Meera Goyal,2023-11-10 Unit I Physical World and Measurement 1 Units and Measurements Unit II Kinematics 2 Motion in a Straight Line 3 Motion in a Plane Unit III Laws of Motion 4 Laws of Motion Unit IV Work Energy and Power 5 Work Energy

and Power Unit V Motion of System of Particles and Rigid Body 6 System of Particles and Rotational Motion Unit VI Gravitation 7 Gravitation Unit VII Properties of Bulk Matter 8 Mechanical Properties of Solids 9 Mechanical Properties of Fluids 10 Thermal Properties of Matter Unit VIII Thermodynamics 11 Thermodynamics Unit IX Behaviour of Perfect Gas and Kinetic Theory 12 Kinetic Theory Unit X Oscillations and Waves 13 Oscillations 14 Waves I Log Antilog and other Tables I Value Based Questions VBQ I Chapterwise Objective Type Questions **Practical/Laboratory Manual Chemistry Class - XI** Er. Meera Goyal, 2021-05-29

1 Basic Laboratory Techniques

- 1 To cut a glass tube or glass rod
- 2 To bend the glass rod at an angle
- 3 To draw a glass jet from a glass tube
- 4 To bore a cork and fit a glass tube into it

Viva Voce

- 1 Characterisation and Purification of Chemical Substances
- 1 To determine the melting point of the given unknown organic compound and its identification simple laboratory technique
- 2 To determine the boiling point of a given liquid when available in small quantity simple laboratory method
- 3 To prepare crystals of pure potash alum $K_2SO_4 \cdot Al_2(SO_4)_3 \cdot 24H_2O$ from the given impure sample
- 4 To prepare the pure crystals of copper sulphate from the given crude sample
- 5 To prepare pure crystals of benzoic acid from a given impure sample

Viva Voce

- 3 Measurement of pH Values
- 1 To determine the pH value of vegetable juices fruit juices tap water and washing soda by using universal pH paper
- 2 To determine and compare the pH values of solutions of strong acid HCl and weak acid CH_3COOH of same concentration
- 3 To study the pH change in the titration of strong base Vs strong acid by using universal indicator paper
- 4 To study the pH change by common ion CH_3COO^- ion in case of weak acid CH_3COOH
- 5 To determine the change in pH value of weak base NH_4OH in presence of a common ion NH_4^+

Viva Voce

- 4 Chemical Equilibrium
- 1 To study the shift in equilibrium between ferric ions and thiocyanate ions by changing the concentrations of either of the ions
- 2 To study the shift in equilibrium between $Co(H_2O)_6^{2+}$ and Cl^- ions by changing the concentrations of either of the ions

Viva Voce

- 5 Quantitative Analysis
- 1 To prepare M 10 oxalic acid solution by direct weighing method
- 2 To prepare M 10 solution of sodium carbonate by direct weighing method
- 3 To determine the strength of given solution of sodium hydroxide by titrating it against N 10 or M 20 solution of oxalic acid
- 4 To determine the strength of a given solution of hydrochloric acid by titrating it against a standard N 10 or M 20 sodium carbonate solution

Viva Voce

- 6 Qualitative Analysis
- Analysis of Anions
- Analysis of Cations

Viva Voce

- 7 Detection of Elements in Organic Compounds
- 1 To detect the presence of nitrogen sulphur and halogens in a given organic compound by Lassaigne's test
- 2 To detect the presence of nitrogen sulphur and halogens in the given organic compound sample number by Lassaigne's test

Viva Voce

INVESTIGATORY PROJECTS

- 1 Checking of Bacterial Contamination in Water
- 1 To check the bacterial contamination in drinking water by testing sulphide ions
- 2 Methods of Water Purification
- 1 To purify water from suspended impurities by using sedimentation
- 2 To purify water by boiling
- 3 To purify water by distillation method
- 4 To purify water by reverse osmosis technique
- 5 To purify water by GAC method
- 6 To purify water by bleach treatment
- 7 To purify water by oxidising agent
- 8 To purify water by ozone treatment method

Viva Voce

- 3 Water Analysis
- 1 To test the hardness of different

water samples Viva Voce 4 Foaming Capacity of Various Soaps 1 To compare the foaming capacity of different washing soaps 2 To study the effect of addition of sodium carbonate on foaming capacity of washing soap Viva Voce 5 Tea Analysis 1 To study the acidity of different samples of tea leaves tea by using pH paper Viva Voce 6 Analysis of Fruits and Vegetable Juices 1 To analysis the fruit and vegetable juices for the constituent present in them Viva Voce 7 Rate of Evaporation 1 To study the rate of evaporation of different liquids IViva Voce 8 Effect of Acids and Bases on Tensile Strength of Fibres 1 To compare the tensile strength of natural fibres and synthetic fibres 2 To study the effect of acids and bases on tensile strength of different fibres Viva Voce

Practical/Laboratory Manual Chemistry Class XII based on NCERT guidelines by Dr. S. C. Rastogi, Er. Meera Goyal Dr. S. C. Rastogi ,Er. Meera Goyal,2020-06-22 A Surface Chemistry 1 To prepare colloidal solution sol of starch 2 To prepare a colloidal solution of egg albumin 3 To prepare colloidal solution of gum 4 To prepare colloidal solution of aluminium hydroxide $Al(OH)_3$ 5 To prepare colloidal solution of ferric hydroxide $Fe(OH)_3$ 6 To prepare colloidal solution of arsenious sulphide As_2S_3 7 To purify a freshly prepared sol by dialysis 8 To compare the effectiveness of different common oils Castor oil cotton seed oil coconut oil kerosene oil mustard oil in forming emulsions Viva Voce B Chemical Kinetics 1 To study the effect of concentration on the rate of reaction between sodium thiosulphate and hydrochloric acid 2 To study the effect of temperature on the rate of reaction between sodium thiosulphate and hydrochloric acid 3 To study the rate of reaction of iodide ions with hydrogen peroxide at different concentrations of iodide ions 4 To study the rate of reaction between potassium iodate KIO_3 and sodium sulphite Na_2SO_3 using starch solution as indicatorl Viva Voce C Thermochemistry 1 Determine the enthalpy of dis solution of copper sulphate $CuSO_4 \cdot 5H_2O$ in water at Room temperature 2 To determine the enthalpy of neutralization of the reaction between HCl and $NaOH$ 3 To determine enthalpy change during the interaction between acetone and chloroform Viva Voce D Electrochemistry 1 To study the variation of cell potential in $Zn|Zn^{2+}||Cu^{2+}|Cu$ with change in concentration of electrolytes $CuSO_4$ or $ZnSO_4$ at room temperature Viva Voce E Chromatography 1 To separate the coloured components pigment present in the given extract of leaves and flowers by ascending paper chromatography and find their R_f values 2 To separate the coloured components present in the mixture of red and blue inks by ascending paper chromatography and find their R_f values 3 To separate Co^{2+} and Ni^{2+} ions present in the given mixture by using ascending paper chromatography and determine their R_f values Viva Voce F Preparation of Inorganic Compounds 1 Preparation of double salt of ferrous ammonium sulphate Mohr's salt from ferrous sulphate and ammonium sulphate 2 To prepare a pure sample of potash alum fitkari 3 Preparation of crystals of potassium ferric oxalate or pottasium trioxlato ferrate III Viva Voce G Preparation of Organic Compounds 1 Preparation of iodoform from ethyl alcohol or acetone 2 Preparation of acetanilide in laboratory 3 Preparation of b Naphthol aniline dye 4 To prepare a pure sample of dibenzalacetone 5 To prepare a pure sample of p nitro acetanilide Viva Voce H Tests for the Functional Groups Present in Organic Compounds Viva Voce I Study of Carbohydrates Fats and Proteins 1 To study simple reactions of carbohydrate 2 To

study simple reactions of fats 3 To study simple reactions of proteins 4 To investigate presence of carbohydrates fats and proteins in food stuffs Viva Voce J Volumetric Analysis 1 To prepare 250 ml of M 10 solution of oxalic acid 2 To prepare 250 ml of M 10 solution of ferrous ammonium sulphate 3 Prepare M 20 solution of oxalic acid with its help find out the molarity and strength of the given solution of potassium permanganate 4 Prepare M 20 solution of Mohr's salt using this solution determine the molarity and strength of potassium permanganate solution Viva Voce K Qualitative Analysis Viva Voce INVESTIGATORY PROJECTS 1 To study the presence of oxalate ions in guava fruit at different stages of ripening 2 To study the quantity of casein present in different samples of milk 3 Preparation of soyabean milk and its comparison with natural milk with respect to curd formation effect of temperature etc 4 To study the effect of potassium bisulphite as food preservative at various concentrations 5 To study the digestion of starch by salivary amylase and the effect of pH and temperature on it 6 To study and compare the rate of fermentation of the following materials wheat flour gram flour potato juice and carrot juice 7 To extract essential oils present in saunf aniseed ajwain coriander illaichi cardamom 8 To detect the presence of adulteration in fat oil and butter 9 To investigate the presence of NO_2 in brinjal Comprehensive Chemistry Activities Vol.I XI Dr. N . K. Verma,2011-12 **Who's who in Finance and Industry** ,2001 *Chemistry* NCERT,2019

Comprehensive Practical Chemistry XI Dr. N. K. Verma,B. K. Vermani,Dr. Neera Verma,2010-02

Practical/Laboratory Manual Chemistry Class XII based on NCERT guidelines Dr. S. C. Rastogi, ,Er. Meera Goyal,2022-02-25 An Excellent Book in Accordance with the latest syllabus for class XII Prescribed by CBSE NCERT and Adopted by Various State Education Boards A Surface Chemistry 1 To prepare colloidal solution sol of starch 2 To prepare a colloidal solution of egg albumin 3 To prepare colloidal solution of gum 4 To prepare colloidal solution of aluminium hydroxide $\text{Al}(\text{OH})_3$ 5 To prepare colloidal solution of ferric hydroxide $\text{Fe}(\text{OH})_3$ 6 To prepare colloidal solution of arsenious sulphide As_2S_3 7 To purify a freshly prepared sol by dialysis 8 To compare the effectiveness of different common oils Castor oil cotton seed oil coconut oil kerosene oil mustard oil in forming emulsions Viva Voce B Chemical Kinetics 1 To study the effect of concentration on the rate of reaction between sodium thiosulphate and hydrochloric acid 2 To study the effect of temperature on the rate of reaction between sodium thiosulphate and hydrochloric acid 3 To study the rate of reaction of iodide ions with hydrogen peroxide at different concentrations of iodide ions 4 To study the rate of reaction between potassium iodate KIO_3 and sodium sulphite Na_2SO_3 using starch solution as indicator Viva Voce C Thermochemistry 1 Determine the enthalpy of dissolution of copper sulphate $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ in water at Room temperature 2 To determine the enthalpy of neutralization of the reaction between HCl and NaOH 3 To determine enthalpy change during the interaction between acetone and chloroform Viva Voce D Electrochemistry 1 To study the variation of cell potential in $\text{Zn}|\text{Zn}^{2+}||\text{Cu}^{2+}|\text{Cu}$ with change in concentration of electrolytes CuSO_4 or ZnSO_4 at room temperature Viva Voce E Chromatography 1 To separate the coloured components pigment present in the given extract of leaves and flowers by ascending paper

chromatography and find their R_f values 2 To separate the coloured components present in the mixture of red and blue inks by ascending paper chromatography and find their R_f values 3 To separate Co^{2+} and Ni^{2+} ions present in the given mixture by using ascending paper chromatography and determine their R_f values Viva Voce F Preparation of Inorganic Compounds 1 Preparation of double salt of ferrous ammonium sulphate Mohr's salt from ferrous sulphate and ammonium sulphate 2 To prepare a pure sample of potash alum fitkari 3 Preparation of crystals of potassium ferric oxalate or potassium trioxalate ferrate III Viva Voce G Preparation of Organic Compounds 1 Preparation of iodoform from ethyl alcohol or acetone 2 Preparation of acetanilide in laboratory 3 Preparation of β -Naphthol aniline dye 4 To prepare a pure sample of dibenzalacetone 5 To prepare a pure sample of p -nitro acetanilide Viva Voce H Tests for the Functional Groups Present in Organic Compounds Viva Voce I Study of Carbohydrates Fats and Proteins 1 To study simple reactions of carbohydrate 2 To study simple reactions of fats 3 To study simple reactions of proteins 4 To investigate presence of carbohydrates fats and proteins in food stuffs Viva Voce J Volumetric Analysis 1 To prepare 250 ml of $M/10$ solution of oxalic acid 2 To prepare 250 ml of $M/10$ solution of ferrous ammonium sulphate 3 Prepare $M/20$ solution of oxalic acid with its help find out the molarity and strength of the given solution of potassium permanganate 4 Prepare $M/20$ solution of Mohr's salt using this solution determine the molarity and strength of potassium permanganate solution Viva Voce K Qualitative Analysis Viva Voce INVESTIGATORY PROJECTS 1 To study the presence of oxalate ions in guava fruit at different stages of ripening 2 To study the quantity of casein present in different samples of milk 3 Preparation of soyabean milk and its comparison with natural milk with respect to curd formation effect of temperature etc 4 To study the effect of potassium bisulphite as food preservative at various concentrations 5 To study the digestion of starch by salivary amylase and the effect of pH and temperature on it 6 To study and compare the rate of fermentation of the following materials wheat flour gram flour potato juice and carrot juice 7 To extract essential oils present in saunf aniseed ajwain coriander illaichi cardamom 8 To detect the presence of adulteration in fat oil and butter 9 To investigate the presence of NO_2 in brinjal

Arihant NCERT CHEMISTRY Simplified Class 11th Sanjay Sharma, 2024-03-14 BOOK STRUCTURE 9 covered BOOK FEATURES Book Rationalised NCERT Synced I Students Suggestions Request NCERT Points to Ponder Exercise Portions Bilingual Format Add I JEE Main NEET Latest Syllabus Sync Book Competition Focus Segment Add I Students Preparation Level Judge Chapters MCQs Based Online Chapter Tests I WHY THIS BOOK edition Class 11 NCERT Chemistry Concepts Key Points Grip Help NCERT Incredible Facts Simplified Way Daily Interactive Language CBSE Rationalized NCERT Syllabus TABLE OF CONTENT Some Basic Concepts of Chemistry Atom Structure Elements classification Properties Periodicity Chemical Bonding and Molecular Structure Thermodynamics Equilibrium Redox Reactions Organic Chemistry Some Basic Principles and Techniques Hydrocarbons

Lab Manual Science Class 10 Neena Sinha, R.Rangarajan, Rajesh Kumar, These Lab Manuals provide complete information on all the experiments listed in the latest CBSE syllabus The various objectives materials required procedures

inferences etc have been given in a step by step manner Carefully framed MCQs and short answers type questions given at the end of the experiments help the students prepare for viva voce

Unveiling the Magic of Words: A Review of "**Ncert Class 11 Chemistry Lab Manual**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Ncert Class 11 Chemistry Lab Manual**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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