



DBN VIDYA MANDIR, MUBARAK MANDI

CLASS XII



Principal's Message Summer Vacation 2024-25

Dear Students,

Summer is here—a season of warmth, joy, and a well-earned break. As you step into these relaxing weeks, I encourage you to make the most of this precious time.

Vacations are not just for rest, but also for reflection and renewal. While the holiday homework is thoughtfully designed to keep your minds engaged, it is equally important to nurture your creativity, curiosity, and well-being. Learn something new, read a good book, spend time with your family, and don't forget to play and laugh wholeheartedly.

To our youngest learners—use this time to explore through play, colour your world, and listen to stories that feed your imagination.

To our senior students—balance relaxation with reflection. Use this time to revisit goals, sharpen your skills, and return with greater focus and energy.

Remember, learning never stops—it simply takes different forms. Stay active, stay safe, and take care of your health. Let's return after the break, refreshed and ready to grow even more—together.

Wishing you and your families a happy, healthy, and fulfilling summer break.

Warm regards,

Priya Singh

Principal

DBN Vidya Mandir, Mubarak Mandi

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Dear Students,

“Learn everything you can, anytime you can, from anyone you can; there always will come a time when you will be grateful you did.”

Sarah Caldwell

Vacation is the time that we all eagerly wait for. We all make plans to enjoy, relax and empower ourselves during these days. This summer vacation the Holidays Homework has been designed with the motto.

Have Fun as you Learn.

TO DOs

- ❖ **Prepare a Schedule and follow it during holidays. It will help you become a good time manager.**
- ❖ **Give time to pursue your hobby as we all need 'Me Time'.**
- ❖ **Limit the use of gadgets and use the time saved in reading Newspaper/ Books.**
- ❖ **Give prime importance to your Health. Eat lots of fruits and vegetables.**
- ❖ **Don't forget to exercise and practice yoga to improve your stamina.**
- ❖ **Pledge to "Eat Right (Less Sugar, Less Oil, Less Salt and Less Outside Food)**
- ❖ **Put in efforts to improve your vocabulary. Add one word per day to your vocabulary.**

ENGLISH

1. Make a collage using images and words that evoke a sense of quiet and contemplation. Write a short reflection on how the collage relates to the poem "Keeping Quiet".

Where to do: English Notebook

Parameters: Creativity

2. Read any one chapter of your choice and write the review.

a) The Rattrap

b) The Enemy

How to do: The review is to be written in 250-300 words keeping in mind the given aspects.

✓ About the writer

- **Theme: "Tree of Life" – Diversity of Living Organisms**

Instructions:

- Draw a large Tree of Life showing various groups of organisms from Bacteria to Plantae.

- **- Use different colors, patterns, and labels to show:**
 - **- Domains and Kingdoms (Archaea, Bacteria, Eukarya)**
 - **- Major Plant Divisions (Algae, Bryophytes, Pteridophytes, Gymnosperms, Angiosperms)**
- Include scientific names and key features in a creative way (calligraphy, leaf art, etc.)**
- Use waste/recycled materials if possible (integration of eco-awareness)**

Submission: On chart paper (A2 size)

2. Research-Based Project

- **Topic Options:**
 - **The Impact of Microorganisms in Human Life**
 - **Role of Algae in Climate Regulation and Food Chain**
 - **Medicinal Importance of Bryophytes and Pteridophytes**
 - **Holiday Homework – Chemistry (Class 12)**
 -
 - **Chapter: Solutions**
 -
 - **Part A: Very Short Answer Questions**
 -
 - **1. Define mole fraction.**
 -
 - **2. State Henry's Law.**
 -
 - **3. What is the van't Hoff factor?**
 -
 - **4. Why does adding salt to water lower its freezing point?**
 -
 - **5. Define ideal and non-ideal solutions.**

-
- **Part B: Short Answer Questions**
-
- **6. Explain Raoult's Law with a suitable example.**
-
- **7. Distinguish between molarity and molality. Which one is affected by temperature?**
-
- **8. A solution is prepared by dissolving 10 g of NaCl in 100 g of water. Calculate the mass percent of the solute.**
-
- **9. What is an azeotrope? Give one example.**
-
- **Part C: Numerical Problems**
-
- **10. Calculate the boiling point elevation when 5 g of urea (molar mass = 60 g/mol) is dissolved in 100 g of water. K_b for water = 0.512 K kg/mol.**
-
- **11. A 0.5 molal solution of a non-volatile solute in benzene boils at 80.26°C. Calculate the molal boiling point elevation constant, K_b , for benzene. Normal boiling point = 80.10°C.**
-
- **12. A solution contains 0.2 mol of non-electrolyte solute dissolved in 0.8 mol of water. Calculate the mole fraction of the solute.**
-
- **13. A 1.0 g sample of a solute dissolved in 100 g of a solvent lowered the freezing point by 0.186°C. Calculate the molar mass of the solute. K_f = 1.86 K kg/mol.**
-
- **Part D: Application-Based / HOTS Questions**
-

- **14. Why do aquatic animals survive under frozen lakes?**
-
- **15. If common salt is spread over snow-covered roads, it helps in melting the snow. Explain.**
-
- **16. How can you determine the molar mass of a solute using depression in freezing point?**
-

Instructions:

-
- • **Use proper units and show all calculations.**
-
- • **Diagrams (if any) should be labeled neatly.**
-
- • **Submit on the first day after vacation**
-

Project:-

-
- **1:- Food adulteration**
-
- **2:- To prepare the crystals of Mohr's salt**
-
- **3:- To prepare the crystals of Potash alum?**
-
- **Evolutionary Significance of Fungi in Plant-Animal Interactions**

Instructions:

- Choose any one topic.

- **- Prepare a detailed report (6–8 pages) with:**
 - **Introduction**
 - **Research Content**
 - **Diagrams/Pictures**
 - **Real-Life Applications**
 - **Conclusion**

- **References**

Submission Format: Handwritten or printed file.

3. Daily Learning Activity – Alphabet Journal

- **Activity Name: "A to Z of the Living World"**

Instructions:

- For each alphabet (A–Z), write one term from the chapters (e.g., A – Algae, B – Bacteria, C – Classification...).

- **- Write:**
 - **- Full form/definition**
 - **- Importance in biological context**
 - **- Related image (drawn/pasted)**
-

Submission: Spiral-bound booklet or scrapbook.

4. Subject Enrichment Worksheet

- **Prepare a worksheet covering:**
 - **- MCQs (10) from all 3 chapters**
 - **- Short Answer Questions (5)**
 - **- Match the Following (5)**
 - **- Labelled Diagrams of:**
 - **Spirogyra**
 - **Rhizopus**
 - **Fern Leaf**
 - **Moss Capsule**
-

Submission: Neatly handwritten in the Biology notebook.

Instructions for Submission After Vacation:

- **- Submit all tasks on the first day of class after summer vacation.**
- **- Top 3 creative entries will be displayed on the Biology Bulletin Board.**
- **- Marks will be added as Internal Assessment.**

Chemistry

Chapter: Solutions

Part A: Very Short Answer Questions

Define mole fraction.

State Henry's Law.

What is the van't Hoff factor?

Why does adding salt to water lower its freezing point?

Define ideal and non-ideal solutions.

Part B: Short Answer Questions

Explain Raoult's Law with a suitable example.

Distinguish between molarity and molality. Which one is affected by temperature?

A solution is prepared by dissolving 10 g of NaCl in 100 g of water.

Calculate the mass percent of the solute.

What is an azeotrope? Give one example.

Part C: Numerical Problems

Calculate the boiling point elevation when 5 g of urea (molar mass = 60 g/mol) is dissolved in 100 g of water. K_b for water = 0.512 K kg/mol.

A 0.5 molal solution of a non-volatile solute in benzene boils at 80.26°C. Calculate the molal boiling point elevation constant, K_b , for benzene. Normal boiling point = 80.10°C.

A solution contains 0.2 mol of non-electrolyte solute dissolved in 0.8 mol of water. Calculate the mole fraction of the solute.

A 1.0 g sample of a solute dissolved in 100 g of a solvent lowered the freezing point by 0.186°C. Calculate the molar mass of the solute. K_f = 1.86 K kg/mol.

Part D: Application-Based / HOTS Questions

Why do aquatic animals survive under frozen lakes?

If common salt is spread over snow-covered roads, it helps in melting the snow. Explain.

How can you determine the molar mass of a solute using depression in freezing point?

Instructions:

Use proper units and show all calculations.

Diagrams (if any) should be labeled neatly.

Submit on the first day after vacation

Project:-

1:- Food adulteration

2:- To prepare the crystals of Mohr's salt

3:- To prepare the crystals of Potash alum?

Physics

Assignment 1: Conceptual Questions

- 1. Define electric charge and write its SI unit.**
- 2. State Coulomb's law in vector form and explain its significance.**
- 3. Differentiate between conductors and insulators with examples.**
- 4. What is an electric dipole? Derive an expression for the electric field due to a dipole at an axial point.**
- 5. Explain Gauss's law and its applications**

Assignment 2: Numerical Based Problems

Assignment 2: Numerical Problems

1. Two point charges of $+2 \mu\text{C}$ and $-3 \mu\text{C}$ are placed 10 cm apart in air. Calculate the electrostatic force between them.
2. An electric dipole of length 2 cm is placed at an angle of 30° with a uniform electric field of 10^5 N/C . Calculate the torque acting on the dipole.
3. A charge of $5 \mu\text{C}$ is placed at the center of a cube. Calculate the electric flux through one face of the cube.
4. A parallel-plate capacitor has plates of area 0.1 m^2 separated by 1 mm. Calculate its capacitance if the medium between plates is air ($\epsilon_0 = 8.85 \times 10^{-12} \text{ F/m}$).
5. Derive the expression for the energy stored in a capacitor and calculate the energy stored in a $100 \mu\text{F}$ capacitor charged to 200 V.

Maths

Chapters: Matrices and Determinants

Part A: Practice Problems

Chapter: Matrices

1. Define the types of matrices with examples (Row, Column, Square, Diagonal, Scalar, Identity, Zero).

2. Perform the following operations:

$$A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}, B = \begin{bmatrix} 5 & 6 \\ 7 & 8 \end{bmatrix}$$

(i) $A + B$

(ii) $A - B$

(iii) $2A$

(iv) AB

3. Verify that matrix multiplication is not commutative using an example.

4. If $A = \begin{bmatrix} 1 & 2 & 3 \\ 3 & -2 & 1 \\ 4 & 2 & 1 \end{bmatrix}$, then show that $A^2 - 23A - 40I = 0$

5. Find the inverse of a 2×2 matrix using the adjoint method:

i) $\begin{bmatrix} 2 & -2 \\ 4 & 3 \end{bmatrix}$

ii) $\begin{bmatrix} -1 & 5 \\ -3 & 2 \end{bmatrix}$

Chapter: Determinants

6. Examine the consistency of the system of equations:

i) $X+2y=2$, $2x+3y=3$

7. $3x-y-2z=2$, $2y-z=-1$, $3x-5y=3$

8. Solve the system of equations using matrix method:

i) $2x + 3y = 5$
 $4x - y = 1$

(ii) $x-y+z=4$, $2x+y-3z=0$, $x+y+z=2$

9. Show that points A(a,b+c), B(b,c+a), C(c,a+b) are collinear

10. Find the area of the triangle with vertices at the points

i) (1,0), (6,0), (4,3)

ii) (2,7), (1,1), (10,8)

Part B: Activity Work

Activity Title: Matrix Puzzle

Holiday Homework – Class 12 Business Studies

Topics: Staffing, Controlling, Directing

Subject Enriched | Art Integrated | Project Included

1. Introduction Page

Title: “Exploring Staffing, Directing, and Controlling – The Pillars of Management”

Include your name, class, roll number, school, session.

Draw a creative mind map showing the three topics and their subpoints.

2. Subject Enrichment

A. Staffing

- Define Staffing
- Importance of Staffing in Organizations
- Steps in Staffing Process
- Case Study: Select a company (e.g., Infosys/TCS) and explain how they staff their employees.

- **Diagram: Flow chart of Staffing Process**

B. Directing

- **Meaning of Directing**
- **Importance of Motivation, Leadership, Communication, and Supervision**
- **Prepare a small role-play script showing how a manager directs team members.**

C. Controlling

- **Meaning of Controlling**
- **Steps in Controlling Process**
- **Relationship between Planning and Controlling**
- **Graphical Example: A comparison chart showing Actual vs Planned Performance**

3. Art Integrated Activity

Integrate with a State/Region (e.g., Kerala, Rajasthan, Nagaland)

- **Poster Making: “Leadership Styles Across Cultures” – Use cultural symbols or attire from selected states.**
- **Collage: Create a collage showing different forms of directing and control mechanisms in traditional businesses (handicrafts, coir industry, etc.)**

4. Project Work :

Choose one topic below and develop a short 4–5 page project:

Topic: Role of Effective Staffing and Leadership in Start-ups

- **Choose a recent Indian Start-up**
- **How they staff (recruitment, selection)**
- **Style of leadership**
- **Control measures used to ensure performance**

Include:

- **Introduction**
- **Objectives**
- **Research Method (interview/article references)**
- **Findings**

- **Conclusion**
- **Bibliography**



Economics

General Instructions:

- **The homework is to be completed on A4 sheets and compiled in a neat project file.**
- **Include a cover page with Name, Class, Roll Number, School Name, and Subject.**
- **Use headings, sub-headings, illustrations, graphs, and tables wherever appropriate.**
- **Plagiarism will not be tolerated – use your own words and analysis.**
- **Submission Date: [Insert Date] **Topic 1: Banking System of India****

A. Theoretical Work:

1. **Define and explain the structure of the Indian banking system – RBI, Commercial Banks, Cooperative Banks, and Development Banks.**
2. **Differentiate between Scheduled and Non-scheduled Banks.**

3. **Role of the Reserve Bank of India as a central bank.**
4. **Monetary policy tools used by RBI – CRR, SLR, Repo Rate, Reverse Repo Rate.**
5. **Prepare a table of key RBI policy rates (current values as of May 2025).**

B. Art-Integrated Activity:

- **Prepare a Banking Tree Diagram showing the hierarchy and types of banks in India.**
- **Make a creative poster or infographic on “Functions of RBI”.**

C. Subject Enrichment:

- **Conduct a survey (ask 5–10 people) about their use of different banking services (e.g., Net Banking, UPI, Loans, Savings).**
- **Present findings in a bar graph or pie chart.**
- **Write a 150-word conclusion on how digital banking has changed people's behavior.**

Topic 2: National Income

A. Theoretical Work:

6. **Define National Income. Explain concepts: GDP, GNP, NDP, NNP.**
7. **Explain the three methods of measuring National Income – Income Method, Product Method, Expenditure Method.**
8. **Discuss the limitations of National Income as an indicator of welfare.**
9. **Analyze India's current GDP trend (last 3 years) using secondary data from RBI or CSO.**

B. Art-Integrated Activity:

- **Create a comic strip or chart showing how income flows in a circular economy (households → firms → government).**
- **Make a 3D model or collage representing the different sectors of the Indian economy and their contributions to National Income.**

C. Subject Enrichment:

- **Choose any one method of National Income estimation.**
- **Prepare a sample calculation using hypothetical data to explain the method step-by-step.**
- **Highlight errors or precautions to be considered while calculating.**

Project Work (Analysis-based):

Title: “Comparative Study of Banking Penetration and National Income in Two Indian States”

10. **Select two Indian states (e.g., Maharashtra and Bihar).**
11. **Collect data on: Number of bank branches per lakh population, Literacy rate, Per capita income, Internet banking usage.**
12. **Analyze and present the data in tabular and graphical form.**
13. **Write an analytical summary (200–300 words) to comment on how banking development influences economic growth.**

Final Submission Checklist:

- **Cover Page**
- **Index**
- **Introduction to Topics**
- **All Activities Completed**
- **Graphs, Charts, and Art Work**
- **Analysis and Conclusion**
- **Bibliography (Sources Used)**



Accountancy

Topic of the Project: choose any company making e- bicycles

Steps to make project

- 1. Choose any company that deals in the manufacturing of e-bicycles .**
- 2. History of the company.**
- 3. Autobiography of the proprietor.**
- 4. Pic's of the products.**
- 5. Financial statements of the company (Statement of profit & loss , balance sheet, tools of financial statement analysis, ratio analysis & cash flow statement.**
- 6. Use ball point pen & A-4 size sheet.**
- 7. Bibliography**

Written Work (Topics)

- 1. Circumstances when Reconstitution of the firm can take place.**
- 2. Change in profit sharing ratio of existing partners.**
- 3. Accounting treatment for goodwill, undistributed Profits & Losses.**
- 4. Revaluation of Assets and reassessment of liabilities.**
- 5. Multiple choice questions of the above topic.**
- 6. Short answer type questions.**
- 7. Long answer type questions.**
- 8. Numerical problems.**

B.Studies

Topics: Staffing, Controlling, Directing

Subject Enriched | Art Integrated | Project Included

1. Introduction Page

Title: "Exploring Staffing, Directing, and Controlling – The Pillars of Management"

Include your name, class, roll number, school, session.

Draw a creative mind map showing the three topics and their subpoints.

2. Subject Enrichment

A. Staffing

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Include:

- Introduction
- Objectives
- Research Method (interview/article references)
- Findings
- Conclusion
- Bibliography

Humanities



POLITICAL SCIENCE

Power, Peace, and the Planet: A Contemporary World Politics Dossier

Name: _____

Class: 12th

Roll Number: _____

School Name: _____

Index

- 1. Introduction**
- 2. The Cold War Era**
- 3. The End of Bipolarity**
- 4. US Hegemony in World Politics**
- 5. Alternative Centres of Power**
- 6. Contemporary South Asia**
- 7. International Organizations**
- 8. Security in the Contemporary World**
- 9. Conclusion**
- 10. Bibliography**

Introduction

This project explores the key themes of global politics covered in Chapters 1 to 7 of the Class 12 Political Science Book 1. It includes topics such as the Cold War, the rise of alternative centers of power, India's relations with neighboring countries, and challenges to global security.

The Cold War Era

- Timeline of major events (1945–1991).**
- Two-block world map (USA vs USSR allies).**
- Effects on South Asia.**

The End of Bipolarity

- **Fall of USSR: reasons and consequences.**
- **Impact on India and the world.**
- **Role of Boris Yeltsin and Mikhail Gorbachev.**

US Hegemony in World Politics

- **Features of US hegemony (Hard, Soft, Structural).**
- **One case study: Iraq War or American pop culture.**
- **Political cartoon analysis.**

Alternative Centres of Power

- **Formation and role of EU, ASEAN, China's rise.**
- **Chart showing GDP/military power comparison.**
- **India's relations with these powers.**

Contemporary South Asia

- **Political map with highlighted democracies, monarchies, military rule (as per time).**
- **Compare India-Pakistan, India-Sri Lanka relations.**
- **Role of SAARC.**

International Organizations

- **UN structure (org chart).**
- **India's demand for Security Council reforms.**
- **Role of WHO, IMF, World Bank during COVID-19 (optional recent context).**

Security in the Contemporary World

- **Traditional vs Non-Traditional security.**
- **Case studies: Cybersecurity, Human security (example: refugees).**
- **Poster/infographic on global peace efforts.**

Conclusion

World politics plays a significant role in shaping India's foreign policy and development. In an interconnected world, international cooperation is essential to address issues like climate change, security, and economic development.

Bibliography

- **NCERT Political Science Textbook**

- Newspaper articles and reports
- Government and international organization websites

Education

Chapters 1 to 5

Name: _____

Roll Number: _____

School Name: _____

Chapter 1: Meaning, Nature and Scope of Education

- Define education. What are its major characteristics?
- Explain the scope of education in modern society.
- Differentiate between formal, informal, and non-formal education with examples.
- Discuss the importance of education in individual and social development.

Chapter 2: Aims of Education

- What are the individual and social aims of education?
- Discuss vocational aim and its relevance in today's education system.
- Explain the cultural and moral aims of education.
- How do democratic aims contribute to national development?

Chapter 3: Agencies of Education

- Define agencies of education. Classify them with examples.
- Explain the role of family and school as agencies of education.
- Discuss the importance of mass media in modern education.
- How do peer groups influence the educational process?

Chapter 4: Education and Philosophy

- Define philosophy. How is it related to education?
- Explain the major branches of philosophy and their educational implications.
- Discuss how philosophy influences aims and curriculum of education.
- Compare and contrast naturalism and idealism in education.

- **Chapter 5: Indian Thinkers and Their Contributions to Education**

- Explain Mahatma Gandhi's concept of Basic Education (Nai Talim).
- Describe the educational philosophy of Rabindranath Tagore.
- What were Swami Vivekananda's views on man-making education?
- Discuss Dr. Radhakrishnan's contribution to higher education in India

History

Submission Date: First day after vacations

Topics Covered:

- 1. Kinship, Caste and Class – Early Societies**
- 2. Thinkers, Believers and Builders – Cultural Developments (600 BCE – 600 CE)**

Activity-Based Homework (Choose Any Two)

- **1. Create a Kinship Tree:**

Make a family tree showing the lineage (pitris) and kinship roles mentioned in ancient

Indian texts like the Mahabharata. Indicate rules of inheritance, marriage norms, etc.

- **2. Caste System Debate Sheet:**

Make a two-column sheet where you write arguments “For” and “Against” the caste

system, referring to ancient texts, modern interpretations, and reform movements.

- **3. Roleplay/Script Writing:**

• **Write a short skit/dialogue between a Brahmana, a Shramana thinker, and a common person discussing their beliefs and way of life. Base it on historical facts.**

• **4. Religious Symbols Collage:**

Make a collage of religious and philosophical symbols from Buddhism, Jainism, and early Hinduism. Include brief explanations for each.

Project-Based Work (Do Any One)

• **1. Research Project on Ashoka's Dhamma:**

Create a detailed report (6–8 pages) on Ashoka's Dhamma with reference to inscriptions, edicts, and their relevance to moral and ethical life today. Include maps and pictures.

• **2. Illustrated Timeline:**

Prepare a timeline from 600 BCE to 600 CE showing key thinkers, dynasties, and religious developments (Gautama Buddha, Mahavira, Vedic texts, Upanishads, Ashokan edicts, etc.)

• **3. Site Report: Sanchi Stupa or Ajanta Caves**

Prepare a project on one historical religious site – including architecture, patronage, religious significance, art styles, and your reflections.

Instructions:

- **Projects should be neat, original, and well-researched.**
- **Use pictures, maps, and creative elements where possible.**
- **All written work must be in your own words.**
- **Mention your sources and references.**

Holiday Homework: Sociology – Class 12 (Chapters 1 to 5)

General Instructions:

- **Complete all written tasks in a separate notebook.**
- **Use neat handwriting and proper headings.**
- **Projects should be creative, well-researched, and handwritten (unless otherwise stated).**

Sociology

Written Work (Chapters 1 to 5)

Chapter 1: Introducing Indian Society

- **Make notes on the structure and features of Indian society.**
- **Prepare a table comparing rural and urban societies.**

Chapter 2: The Demographic Structure of the Indian Society

- **Create charts showing population growth, literacy rate, and sex ratio.**
- **Write short notes on aging, dependency ratio, and demographic dividend.**

Chapter 3: Social Institutions – Continuity and Change

- **Write a comparative note on the joint family vs. nuclear family.**
- **Create a mind map of caste and class structure.**

Chapter 4: The Market as a Social Institution

- **List types of markets with examples from local areas.**
- **Explain the role of advertising in shaping consumer behavior.**

Chapter 5: Patterns of Social Inequality and Exclusion

- **Discuss the impact of caste and untouchability.**
- **Create a poster on "Equality for All".**

Project Work (Any One Topic)

Choose one project from the following topics and complete it as per the guidelines.

- **Study of a local market as a social institution.**
- **Report on social inequalities in your locality.**
- **Case study of a joint or nuclear family structure.**
- **Survey on educational or gender inequality in your area.**
- **Comparative study of traditions in rural vs. urban societies.**

- **Title page**
- **Index**
- **Introduction**
- **Main content with visuals (charts/photos/graphs)**
- **Findings/Conclusion**
- **Bibliography**



- 1. Explain the concept of sports training method?**
- 2. Define training and explain its concept?**
- 3. Practical work**
 - a) Physical fitness.**
 - b) Draw a well labelled diagram of standard track in the file and write track events in detail.**

Computer Science

Project Work

Student Result Management System

- **Create a sample program that inputs student details and Marks, Calculate Total, Average, and Grade and display the result in a structured format**

Digital Presentaion

- **Create a presentation of the chapter control structures in Python using slides and transitions highlighting the following points**

- 1. Control structures**
- 2. Its types**

