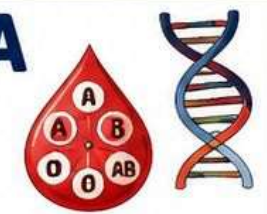




# DELHI WORLD PUBLIC SCHOOL, MOGA

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## HOLIDAY HOMEWORK

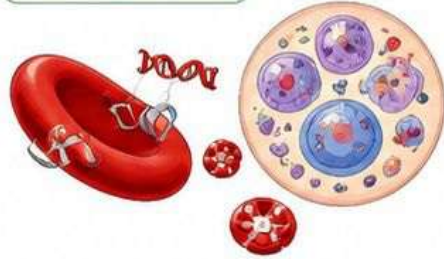


Subject:

Biology (044)

*Happy Learning and Happy Holidays!*

**GRADE XI**



### SUBJECT ENRICHMENT ASSESSMENT – 30 MARKS

Component	Marks
Task-1	5
Task-2	5
Task-3	5
Task-4	5
Portfolio Assignment	10
<b>Total</b>	<b>30</b>

### SUBJECTIVE HOMEWORK



Revise Ch. 8, 9 & 10 thoroughly

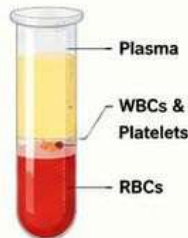
- Revise Ch. 1 — The Living World
- Practice diagrams for all chapters

#### TASK-1 (5 Marks)

##### Human Blood & Its Components

- Write an introduction to human blood.
- Draw a neat labelled diagram of blood showing its components.
- Explain the functions of:

- ✓ RBCs
- ✓ WBCs
- ✓ Platelets
- ✓ Plasma



#### TASK-2 (5 Marks)

##### ABO Blood Group System

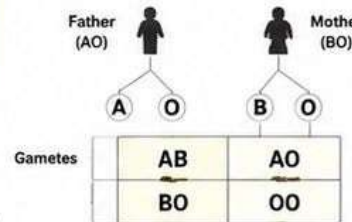
- Explain the discovery and basis of ABO blood group system.
- Describe antigens (A, B) and antibodies (anti-A, anti-B).
- Draw a table for all four blood groups showing antigen and antibody present.

Blood Group	Antigen on RBC	Antibody in Plasma
A	A	Anti-B
B	B	Anti-A
AB	A and B	None
O	None	Anti-A and Anti-B

#### TASK-3 (5 Marks)

##### Rh Factor & Inheritance

- Explain Rh factor (Rh+ and Rh-) and its significance.
- Show inheritance of ABO and Rh groups using Mendelian genetics.
- Solve at least two genetic problems on blood groups.



#### TASK-4 (5 Marks)

##### Blood Group Compatibility

- Prepare a blood group compatibility chart for transfusion.
- Who can donate to whom and who can receive from whom.
- Write key points to remember.

Donor \ Recipient	A	B	AB	O
A	✓		✓	✗
B		✓	✓	✗
AB			✓	
O	✓	✓	✓	✓

✓ Compatible    ✗ Not Compatible

### ★ PORTFOLIO ASSIGNMENT (10 Marks) ★

#### Project: ABO Blood Group System and Rh Grouping

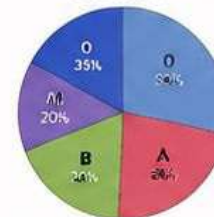


- ✓ Cover Page (Title, Name, Class, Roll No.)
- ✓ Index / Table of Contents
- ✓ Introduction to human blood & its components
- ✓ Detailed explanation of ABO blood group system
- ✓ Rh factor — Rh+ and Rh- with significance
- ✓ Inheritance of blood groups (Mendelian genetics)
- ✓ Blood group compatibility chart for transfusions

#### Community Survey:

- Conduct a survey of blood group distribution in your community (minimum 20 persons)
- Record data in a table
- Present findings as a pie chart or bar graph
- Write observations and conclusion

Example: Blood Group Distribution



### PRACTICAL FILE

Complete given experiments of practical file.

- Complete all experiments neatly.
- All activities should have:
  - ✓ Aim
  - ✓ Materials Required
  - ✓ Procedure
  - ✓ Observations
  - ✓ Result
  - ✓ Precautions
  - ✓ Conclusion



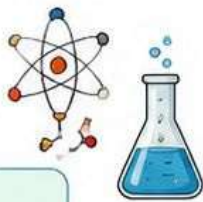
**Note:** File should be neatly written/typed and creatively decorated.



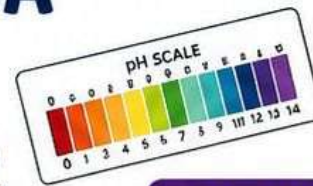


# DELHI WORLD PUBLIC SCHOOL, MOGA

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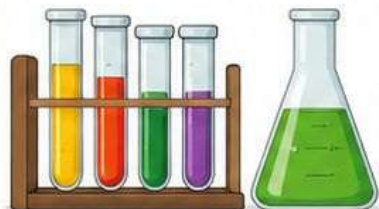
## HOLIDAY HOMEWORK



GRADE XI

Subject:  
Chemistry (043)

Happy Learning and Happy Holidays!



SUBJECT ENRICHMENT ASSESSMENT – 30 MARKS	
Component	Marks
Task-1	5
Task-2	5
Task-3	5
Task-4	5
Portfolio Assignment	10
<b>Total</b>	<b>30</b>

### SUBJECTIVE HOMEWORK

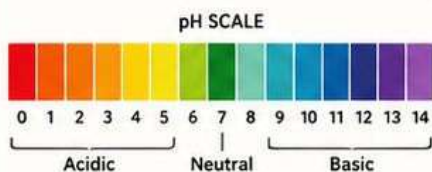
- Revise Ch. 1, 2 and 7 thoroughly
- Practice all numericals from Ch. 1
- Memorise molar mass values and key formulae



#### TASK-1 (5 Marks)

##### Introduction to pH & Acidity

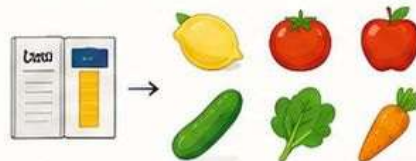
- Write a short note on:
  - ✓ pH and its scale
  - ✓ Acids, Bases and Neutrals
  - ✓ Importance in daily life



#### TASK-2 (5 Marks)

##### pH Test of Fruits & Vegetables

- Test at least 6 common fruits and vegetables using litmus / pH strips
- Record your observations in a data table
- Mention colour and pH value



#### TASK-3 (5 Marks)

##### Analysis & Explanation

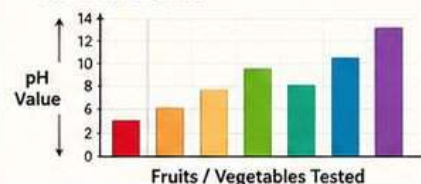
- Explain why certain foods are acidic or basic
- Give at least 3 real-life examples
- Write observations in your own words

Acidic Foods	Basic Foods
•	•
•	•
•	•

#### TASK-4 (5 Marks)

##### Graph Your Results

- Draw a bar graph comparing pH values of the tested items
- Label the axes correctly
- Give a suitable title and write inference



#### PORTFOLIO ASSIGNMENT (10 Marks)

##### Project: Study of Acidity of Fruits and Vegetables



- Cover Page (Title, Name, Class, Roll No.)
- Index / Table of Contents
- Aim of the Project
- Introduction to pH and acidity
- Materials Required

- Test at least 6 common fruits and vegetables using litmus / pH strips
- Record observations in a data table
- Explain why certain foods are acidic or basic
- Draw bar graph comparing pH values

- Result & Inference
- Conclusion
- Precautions
- Bibliography



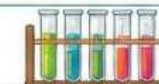
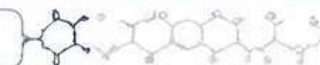
#### PRACTICAL FILE

Complete Lab Manual for all 12 experiments.

- All experiments must have:
  - ✓ Aim
  - ✓ Materials
  - ✓ Procedure
  - ✓ Observations
  - ✓ Result



Note: File should be neatly written/typed and creatively decorated.

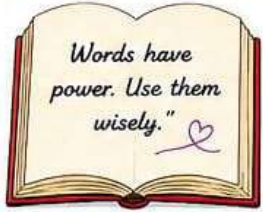




# DELHI WORLD PUBLIC SCHOOL, MOGA

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# HOLIDAY HOMEWORK



Subject: English (301)

GRADE XI

Happy Learning and Happy Holidays!

## SUBJECT ENRICHMENT ASSESSMENT – 30 MARKS

Component	Marks
Task-1	5
Task-2	5
Task-3	5
Task-4	5
Portfolio Assignment	10
<b>Total</b>	<b>30</b>



"The more that you read, the more things, you will know."  
- Dr. Seuss

## SUBJECTIVE HOMEWORK

- Revise Hornbill Ch. 1, 2 & Poem 1
- Revise Snapshot Ch. 1 & 2
- Revise all Tenses (practice exercises)
- Practice Speech Writing, Debate Writing



### TASK-1 (5 Marks)

#### PROSE – Chapter Explorer

Choose any TWO chapters from Hornbill.

- Write gist / summary of the chapter
- Character sketch of main characters
- Central theme and literary devices used with explanations



### TASK-2 (5 Marks)

#### POETRY – Poetic Insights

Choose any TWO poems from Hornbill.

- Central theme and message
- Poetic devices: metaphor, simile, alliteration, etc.
- Visual scene / imagery from the poem (draw or describe)
- Personal response / appreciation



### TASK-3 (5 Marks)

#### Literary Devices & Quotations

Prepare a creative chart on the following:

- Common literary devices with examples
- 10 important quotations from Hornbill with explanations
- How these quotes add value to the text

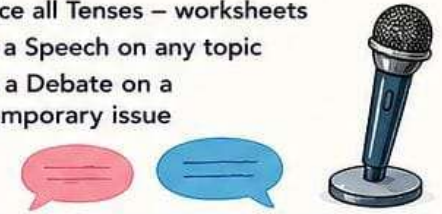


### TASK-4 (5 Marks)

#### Language & Expression

Do the following:

- Practice all Tenses – worksheets
- Write a Speech on any topic
- Write a Debate on a contemporary issue



## ★ PORTFOLIO ASSIGNMENT (10 Marks) ★

### Portfolio: Literary Analysis Portfolio

(Expression Through Imagination and Enhancing Skills Creatively)

#### Creative Writing Section

Rewrite One Scene: (Choose any ONE)

- ✓ The grandmother's last moments as a short story (Chapter: The Portrait of a Lady)
- ✓ Alternate ending of "We're Not Afraid to Die"
- ✓ A conversation between the Laburnum Tree and the Rain

#### Writing Skills Section

Speech Writing:

"The Importance of Preserving Cultural Heritage"  
(Chapter: Discovering Tut)

Article Writing:

"Nature's Silent Lessons"  
(based on two poems)

Include in your Portfolio:

- ✓ Cover Page (Title, Name, Class, Roll No.)
- ✓ Index / Table of Contents
- ✓ Neat Handwritten / Typed Work
- ✓ Creative Presentation
- ✓ Pictures / Illustrations (where applicable)
- ✓ Conclusion & Bibliography



A good reader today, a better thinker tomorrow."



**Note:** File should be neatly written/typed and creatively decorated.



# DELHI WORLD PUBLIC SCHOOL, MOGA

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# HOLIDAY HOMEWORK



Subject: Information Technology (802)

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### SUBJECT ENRICHMENT ASSESSMENT – 30 MARKS

Component	Marks
Task-1	5
Task-2	5
Task-3	5
Task-4	5
Portfolio Assignment	10
<b>Total</b>	<b>30</b>

Grade XI

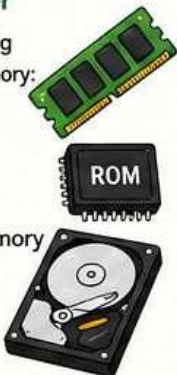


### TASK-1 (5 Marks)

#### Computer Organisation – Memory Explorer

Prepare a colorful chart showing different types of computer memory:

- RAM
- ROM
- Cache Memory
- Hard Disk / Secondary Memory

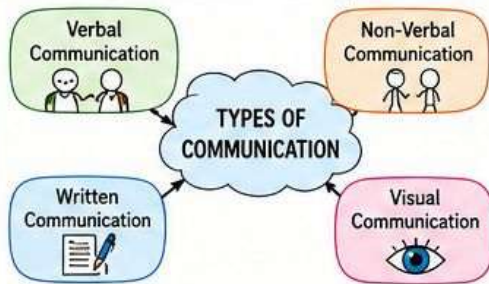


Add one function and one real-life example for each.

### TASK-2 (5 Marks)

#### Communication Skills – Types of Communication

Create a creative mind map on:

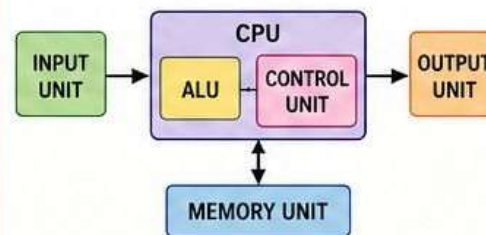


Add suitable daily-life examples.

### TASK-3 (5 Marks)

#### Computer Organisation Activity

Draw and label the basic block diagram of a computer system showing:



Write the function of each component.

### TASK-4 (5 Marks)

#### Communication Skills – Real Life Application

Observe communication around you and write five examples from daily life where communication skills are used effectively.

Examples may include:

- Classroom interaction
- School assembly
- Customer service
- Family discussions
- Phone conversations



### ★ PORTFOLIO ASSIGNMENT (10 Marks) ★

#### Project File: Communication Skills & Computer Organisation

Prepare a project file including:

- Cover page with title, name, class & roll no.
- Index / Table of contents
- Introduction to Communication Skills
- Types of communication
- Barriers to communication
- Introduction to Computer Organisation
- Components of computer system (Input, CPU, Memory, Output)
- Memory units and storage devices
- Real-life applications / examples
- Conclusion & bibliography

Note: File should be neatly written/typed and creatively decorated.



Good communication connects people. Good organisation connects ideas to success.



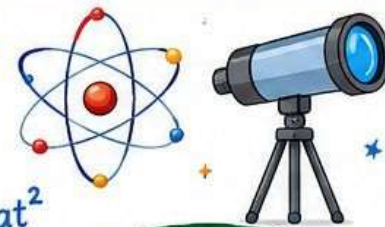


# DELHI WORLD PUBLIC SCHOOL, MOGA

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## HOLIDAY HOMEWORK

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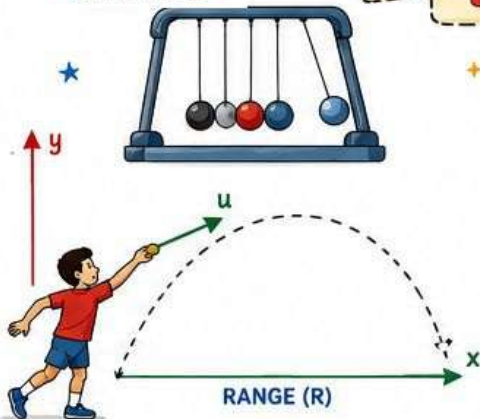


$$F = ma$$

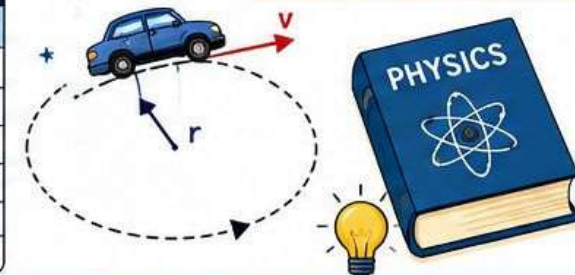
$$s = ut + \frac{1}{2}at^2$$

**GRADE XI**

**Subject:  
Physics (042)**



SUBJECT ENRICHMENT ASSESSMENT – 30 MARKS	
Component	Marks
Task-1	5
Task-2	5
Task-3	5
Task-4	5
Portfolio Assignment	10
<b>Total</b>	<b>30</b>



### TASK-1 (5 Marks)

#### Motion in a Plane – Real Life Explorer

- Collect 5-6 real-life examples of motion in a plane
- Examples: projectile motion, circular motion, motion of vehicles, satellite motion etc.
- Paste pictures and explain each briefly with formulas



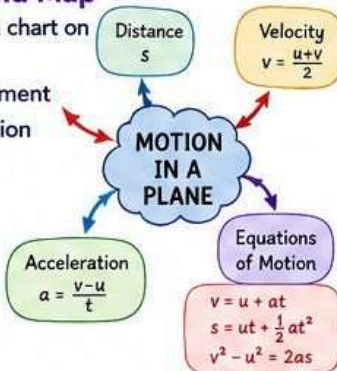
### TASK-2 (5 Marks)

#### Formula Mind Map

Create a creative formula chart on Units 1 & 2 including:

- Distance and displacement
- Velocity and acceleration
- Vector quantities
- Equations of motion

Decorate using arrows and diagrams.

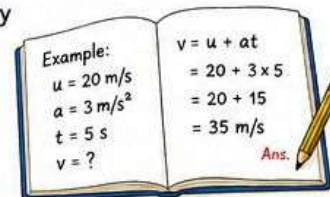


### TASK-3 (5 Marks)

#### Numerical Challenge

Solve any five NCERT numericals from:

- Units 1 & 2
- Show complete steps and formula used
- Write final answers neatly



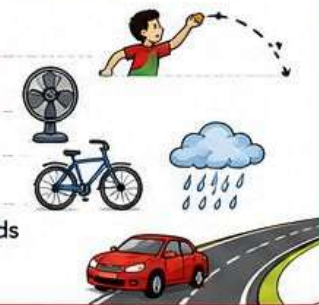
### TASK-4 (5 Marks)

#### Physics Around Us

Observe daily life and identify five examples where Physics concepts are visible.

Examples:

- Throwing a ball
- Fan rotation
- Bicycle motion
- Rainfall motion
- Car turning on roads



### ★ PORTFOLIO ASSIGNMENT (10 Marks) ★

#### Portfolio: Real-Life Examples of Motion in a Plane + Numericals



- Cover page with title, name, class & roll no.
- Index / table of contents



- 5-6 real-life examples with diagrams
- Relevant formulas and explanations



- Solve at least 10 NCERT numericals from Units 1 & 2
- Include derivations of key equations



- Conclusion & bibliography

### Practical File:

Complete all pending practical entries.



**Note:** File should be neatly written/typed and creatively decorated.

