# DAV Public School, CRRC, Medical Road, Gaya
## Summer Vacation Homework (2025 – 2026)
### Class : XI (Science)

**ENGLISH**
1. Write an essay on "Pollution".
2. Write a speech on "Health is Wealth."
3. Write summary of Lesson 01 – The Portrait of a Lady (Hornbill).
4. Write summary of Lesson 01 – The Summer of the Beautiful White Horse. (Snapshots)

Project Work
1. Write 12 Literary Devices with examples on a chart paper.

**PHYSICS**
1. Prepare note book upto discussed topics.
2. Write all mathematical formulas in note book.
3. Solve the quadratic equations :
    a. $6x^2 - 13x + 6 = 0$
    b. $X^2 - 2x - 15 = 0$
4. Differentiate the following functions :
    a. $\frac{x^2+1}{x-2}$
    b. $\sqrt{4x^2 - 7}$
    c. $(3x^2 + 7)(6x + 3)$
5. Find $\frac{dy}{dx}$
    a. $y = 5x^4 + 3x^{3/2} + 6x$
    b. $y = x + \sqrt{x} + \frac{1}{\sqrt{x}}$
    c. $y = \tan^3 x$

**CHEMISTRY**
1. Complete question answers of Ch – 01 upto taught portion.

**BIOLOGY**
**Solve the following question in a separate thin copy.**
1. Write the universal rules of writing scientific names.
2. Why there is a need to standardise the naming of organism?
3. What is taxonomic hierarchy? Write the taxonomic categories showing hierarchical arrangement in ascending order.
4. Identification, nomenclature and classification are three components of------------------.
5. Give three examples to prove that taxa can indicate categories at very different level.
6. The number of common characteristic will be more in a species or kingdom?

7. What is the full form of ICZN and ICBN?
8. In a given Habitat we have 20 plants species and 20 animal species. Should we call this as diversity or biodiversity Justify.
9. The number and kinds of organism are not constant. How do you explain this statement.
10. A ball of snow when rolled over snow increase in mass, volume and size .Is it comparable to growth as seen in Living Organism. Why?

## MATHEMATICS
Complete the following chapters which will be used in Std. XI
1. Real Numbers
2. Polynomial
3. Quadratic Equation
4. A.P.
5. Statistics

## INFORMATION TECHNOLOGY
1. Write Questions / Answers of Ch – 01 (Computer Organization).
2. Learn Questions / Answers of Ch – 01 (Computer Organization)

## PHYSICAL EDUCATION
1. Complete question answers of Ch – 01 upto taught portion.