



# Delhi Public School JHANSI

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## **WORK PLAN FOR THE MONTH** **APRIL & MAY- 2022** **Class-XII Science**

**Dear Parents,**  
Greetings

This month your child will be able to read and understand :-

### **ENGLISH:**

#### **Flamingo**

1.The Last Lesson

Poem

My Mother at Sixty

#### **Grammar**

Tenses

#### **Learning objectives:**

To enhance reading and understanding skills

### **MATHEMATICS:**

Chapter 6

Application of derivatives

It includes

Increasing & Decreasing functions

Maxima & Minima

Tangents & Normals

Learning Objectives:

Students will be able to find behaviour of different functions..like they are increasing , decreasing, at which point function have maximum/minimum value , and also tangents & normal of function at given point

#### **Physics**

**1.Electric Charges and Fields**

#### **Learning objectives:**



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- Property of light: Why and how light is an Electromagnetic radiation; Dual nature of light: How light behaves as a wave and phenomena supporting the wave nature of light; how light behaves as a beam (stream) of particles & phenomena supporting the particle nature of light and its wave nature. Why waves are represented as “sine wave”.
- Phenomena in nature and experiments supporting the fact light travels in a straight path; Reflection of light in a plane mirror; Laws of reflection (in a plane mirror). Properties of Image formation in a plane mirror; Problems based on properties of images in a plane mirror.
- Spherical Mirrors (Terminologies): Centre of Curvature, Pole, Radius Of Curvature, Principal Axis, Aperture, Principal Focus & Focal Length of Concave Mirror; Principal Focus & Focal Length of Convex Mirror; Sign Convention for Spherical Mirrors, Rules for tracing Images formed by Concave Mirrors, Image formation in Concave Mirrors, Measuring Focal Length of Mirrors. Mirror Formula, Magnification in Mirror; Numerical.
- Refraction and Laws of Refraction; Lenses: types, their sign conventions, image formations, Lens Formula & magnification, Power of Lens, Prism and dispersion of light; Atmospheric Refraction, Scattering of light.

## Chemistry

Chapter 1 solid state

Chapter 2 Solutions

Solid state learning outcomes

1. Recognizes the concepts of chemistry related to various types of solids such as Amorphous and crystalline solids and also different types of crystalline solids.
2. Explains crystal lattice and unit cells, with the understanding of the close packing of Particles, different types of voids and close packed structures.
3. Derives formulae and equations, such as, density formula, packing efficiency of Different types of cubic unit cells
4. Describe the defects in solids and their effect on properties.
5. Explain the electrical and magnetic properties of solids and their structures.



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## **COMPUTER**

Class 12 Info of IP

Data Handling using Pandas -I

- Introduction to Python libraries- Pandas, Matplotlib.
- Data structures in Pandas - Series and data frames. Series: Creation of series from dictionary, scalar value; mathematical operations; series attributes, head and tail functions; selection, indexing and slicing.

## **Physical Education**

- 1.Planning Sports
- 2.Sports and Nutrition

Learning object

To enhance students understanding about different sports and balanced diet required for nutrition.



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## ACTIVITIES OF THE MONTH

### English Poem

#### The Ball Poem

What is the boy now, who has lost his ball,  
What, what is he to do? I saw it go  
Merrily bouncing, down the street, and then  
Merrily over — there it is in the water!

No use to say 'O there are other balls':  
An ultimate shaking grief fixes the boy  
As he stands rigid, trembling, staring down  
All his young days into the harbour where  
His ball went. I would not intrude on him;  
A dime, another ball, is worthless. Now  
He senses first responsibility

In a world of possessions. People will take  
Balls, balls will be lost always, little boy.  
And no one buys a ball back. Money is external.



He is learning, well behind his desperate eyes,  
The epistemology of loss, how to stand up  
Knowing what every man must one day know  
And most know many days, how to stand up.



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दोहा

(1)

तिनका कबहुँ ना निन्दिये, जो पाँवन तर होय,

कबहुँ उड़ी आँखिन पड़े, तो पीर घनेरी होय।

**अर्थ :-** कबीर कहते हैं कि एक छोटे से तिनके की भी कभी निंदा न करो जो तुम्हारे पाँवों के नीचे दब जाता है। यदि कभी वह तिनका उड़कर आँख में आ गिरे तो कितनी गहरी पीड़ा होती है (2)

जब मैं था तब हरी नहीं, अब हरी है मैं नाही ।

सब अँधियारा मिट गया, दीपक देखा माही ॥

**अर्थ :-** जब मैं अपने अहंकार में डूबा था - तब प्रभु को न देख पाता था - लेकिन जब गुरु ने ज्ञान का दीपक मेरे भीतर प्रकाशित किया तब अज्ञान का सब अन्धकार मिट गया - ज्ञान की ज्योति से अहंकार जाता रहा और ज्ञान के आलोक में प्रभु को पाया।

संस्कृत श्लोक

(1)

विद्या मित्रं प्रवासेषु, भार्या मित्रं गृहेषु च।

व्याधितस्यौषधं मित्रं, धर्मो मित्रं मृतस्य च॥

**अर्थ —** विदेश में ज्ञान, घर में अच्छे स्वभाव और गुणस्वरूप पत्नी, औषध रोगी का तथा धर्म मृतक का सबसे बड़ा मित्र होता है।



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अभिवादनशीलस्य नित्यं वृद्धोपसेविनः।

चत्वारि तस्य वर्धन्ते आयुर्विद्या यशोबलं।

**अर्थ** — बड़ों का अभिवादन करने वाले मनुष्य की और नित्य वृद्धों की सेवा करने वाले मनुष्य की आयु, विद्या, यश और बल ये हमेशा बढ़ती रहती है।

**Thank you**  
**Kavita Naryani**  
**Class-XII Science**

