

# The Jain World School, Mawar, Mati.

SUMMER HOLIDAY HOMEWORK ASSIGNMENT CLASS:- XII A

Sunshine on my mind,  
summertime in my soul.”



# Dear Parents! Greetings!

Summer vacation is probably the best time of the year for the little ones, It's time for loads of fun for them, we have planned out some simple & interesting activities for our students & they are in amalgamation of simple yet thoughtfully planned activities which promote critical skills amongst young learner . It's an art integrated protect based on scholastic & co-scholastic activities targeting competency based learning.

Please note:- The Term-I Assessment from the holiday homework . Students are to complete the activities & submit to their class teacher/subject teachers by the given dates:-

S.No	Subject	Date
1	English/ Maths	08.07.24
2	Hindi/Physical Education	09.07.24
3	Computer/Physics	10.07.24
4	Chemistry / Biology	11.07.24
5	Work Experience	12.07.24



\*All the activities & the use of internet for doing the activities to be done strictly under the supervision of parents.

\*Practice sheets will be uploaded in the class groups and school website [www.tjws.in](http://www.tjws.in)

\*The home assignment is of 10 marks failing to submit n the given date will result in Absent marking in the records & no marks will be given.



# Dear Parents,

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IN ADDITION TO THE HOLIDAYS HOMEWORK ACTIVITIES, WE WOULD ALSO SUGGEST THE FOLLOWING ACTIVITIES FOR STUDENTS:- THE STUDENTS TO PRACTICE WRITING ONE PAGE OF ENGLISH & HINDI IN A SEPARATE NOTEBOOK ON AN ALTERNATE BASIS DURING THE HOLIDAYS & THE SAME HAS TO BE BROUGHT TO SCHOOL ON REOPENING. THE STUDENTS TO BE GUIDED TO READ SIMPLE STORY BOOKS WITH SHORT SENTENCES & BOLD ILLUSTRATIONS . PARENTS CAN ALSO LOG INTO STORY WEAVER [HTTPS://STORYWEAVER.ORG.IN/](https://storyweaver.org.in/) . THE APP HAS SHORT INTERESTING & AGE APPROPRIATE STORIES FOR ALL THE AGE GROUP & IN ALL LANGUAGES. THE STUDENTS TO ALSO FOLLOW A DAILY ROUTINE OF EXERCISES AT HOME TO KEEP THEMSELVES FIT & STRONG

YOUTUBE LINK FOR REFERENCE -: <https://youtu.be/fb5-7+lix-1>

# HINDI LANGUAGE & LITERATURE

ग्रीष्मकालीन गृह कार्य

विषय- हिंदी

कक्षा -12

सामान्य निर्देश - स्वच्छता का विशेष ध्यान रखें

निम्नलिखित मुख्य बिंदुओं को ध्यान में रखते हुए दिए गए विषय पर परियोजना कार्य पूरा करें

•प्रमाण पत्र, आभार ज्ञापन

•विषय सूची, उद्देश्य

•समस्या का बयान, परिकल्पना, प्रस्तुतीकरण

• साक्ष्य संग्रह,, अध्यापक टिप्पणी महादेवी वर्मा/ हरिवंश राय बच्चन संपूर्ण जीवन परिचय साहित्यिक परिचय व उनकी प्रसिद्ध कविताओं का अंश भी लिखिए (चित्रों सहित )

# PHYSICS

The Jain World School, Mawar,Mati

## CLASS-XII SUMMER BREAK ASSIGNMENT OF PHYSICS(2024-25)

*Dear parents,*

*Summer break is round the corner. And Vacations are the happiest time in students' lives. They relax and recoup to health and vitality. However, it is also time to do some fun –filled activities to make the vacations more rewarding.*

*Thus, here are some exercises to extend the in-school opportunities to learn:*

### SCIENTIFIC INVESTIGATION

1) To study various factors on which the internal resistance/EMF of a cell depends.

**(Roll no- 1,9 and 17)**

2) To study the variations in current flowing in a circuit containing an LDR because of a variation in

(a) the power of the incandescent lamp, used to 'illuminate' the LDR (keeping all the lamps at a fixed distance).

(b) the distance of a incandescent lamp (of fixed power) used to 'illuminate' the LDR.

**(Roll no- 2,10 and 18)**

- 3) To find the refractive indices of (a) water (b) oil (transparent) using a plane mirror, an equiconvex lens (made from a glass of known refractive index) and an adjustable object needle. **(Roll no- 3, 11 and 19)**
- 4) To investigate the relation between the ratio of (i) output and input voltage and (ii) number of turns in the secondary coil and primary coil of a self-designed transformer. **(Roll no- 4, 12 and 20)**
- 5) To investigate the dependence of the angle of deviation on the angle of incidence using a hollow prism filled one by one, with different transparent fluids. **(Roll no- 5, 13, and 21)**
- 6) To estimate the charge induced on each one of the two identical Styrofoam (or pith) balls suspended in a vertical plane by making use of Coulomb's law. **(Roll no- 6, 14 and 22)**
- 7) To study the factor on which the self-inductance of a coil depends by observing the effect of this coil, when put in series with a resistor/(bulb) in a circuit fed up by an A.C. source of adjustable frequency.  
**(Roll no- 7,15 and 23)**
- 8) To study the earth's magnetic field using a compass needle -bar magnet by plotting magnetic field lines and tangent galvanometer. **(Roll no- 8 and 16 )**

**Note: You need to make the Investigatory Project on the topic allotted to you.**

### **PROBLEM SOLVING**

Solve the PYQs. of the topics “Electric Charges & Fields”, “ Electric Potential & Capacitance”

# CHEMISTRY

1. Solve CBSE PYQ question paper 2015-2023 in separate sheets along with questions (Unit-1-**solution** and unit-2-**electrochemistry**)
2. Complete on your chemistry note book and write all name reaction two times from organic chemistry (unit no. 6,7,8 &9)
3. To prepare chemistry practical file notebook and write down the given salts to identify the acidic and basic radicals.
4. Complete the synopsis on your working **project** according to CBSE rationalize syllabus 2024-25 topic given by concerned subject teacher.
5. Scientific investigations involving laboratory testing and collecting information from other sources A few suggested Projects.
  - Study of the presence of oxalate ions in guava fruit at different stages of ripening(*Roll no. :- 1,9&17*)
  - Study of quantity of casein present in different samples of milk. (*Roll no.-2,10&18*)
  - Preparation of soybean milk and its comparison with the natural milk with respect to curd formation, effect of temperature, etc.(*Roll no. :-3,11&19*)
  - Study of the effect of Potassium Bisulphate as food preservative under various conditions (temperature, concentration, time, etc.(*Roll no. :-4,12&20*)
  - Study of digestion of starch by salivary amylase and effect of pH and temperature on it.(*Roll no. : -5,13&21*)
  - Comparative study of the rate of fermentation of following materials: wheat flour, gram flour, potato juice, carrot juice, etc. (*Roll no :-6,14&22*)
  - Extraction of essential oils present in Saunf (aniseed), Ajwain (carum), Illaichi (cardamom). (*Roll no.:-7,15&23*)



- Study of common food adulterants in fat, oil, butter, sugar, turmeric power, chilli powder and pepper. (*Roll no. : -8,16&24*)

**The project file must contain**

Front page

Certificate

Acknowledgement

Aim

Index

Requirements

Theory

Procedure

Observation Table

Result

Bibliography

Thank You page with Science Quote

# BIOLOGY

## SCIENTIFIC INVESTIGATION

- 1) Do the assignment/investigatory project as per the given topic by concerned subject teacher.
- 2) Flowers adapted to pollination by different agencies (wind, insect and birds).
- 3) Pollen germination on stigma through a permanent slide or scanning electron micrograph.
- 4) Prepare a temporary mount to observe pollen germination.(experiment)

## PROBLEM SOLVING

Solve the worksheet given on the topic "Human Reproduction"

# MATHEMATICS

## 1) PROJECT WORK:

Activity-1: To verify that the relation  $R$  in the set  $L$  of all lines in a plane, defined by  $R = \{(l, m) : l \parallel m\}$  is an equivalence relation. **[Activity 2 of the lab manual]**

Activity-2: To demonstrate a function which is one-one but is not onto. **[Activity 4 of the lab manual]**

Activity-3: To draw the graph of  $\sin^{-1}$ , using the graph of  $\sin x$ , demonstrate the concept of mirror reflection (about the line  $y = x$ ) **[Activity 5 of the lab manual]**

**“ All the project work is to be done in a classmate practical copy”**

**“ All the students have to write the above three mentioned activities from the NCERT lab manual whose link is provided below”** [MATHEMATICS ACTIVITIES CLASS 12TH \(1-10\).pdf](#)

**“ Students have to leave the observation column empty and it would be filled by the students when students will perform the activity in school”**

## 2) WORKSHEET

Complete the following worksheet in your homework copy(Access the worksheet by the given link-

**WORKSHEET 1 LINK :** [ASSIGNMENT WORKSHEET 1 RELATION AND FUNCTION AND ITF.pdf](#)

**WORKSHEET 2 LINK :** [ASSIGNMENT WORKSHEET 2 MATRICES AND DETERMINANTS.pdf](#)

# COMPUTER SCIENCE

## COMPUTER SCIENCE (TECHNOLOGY,DIGITAL LITERACY AND EXPERIENTIAL LEARNING):-

### Task A :-

#### **Project Work(File):-**

On the above information submit file with index, certificate ,acknowledgement , bibliography , etc. File should be designed carefully as it will be sent to **CBSE BOARD**.

**Note:-**All the Programs must be written in project file and a soft copy should also be maintained.

**Program Requirement:-** Minimum 15 python programs,5 SQL set and 4 Python with MY SQL connectivity programs.

**Task B :-**

**Very Short Answer Type Questions(1 mark) (Do it in your notebook)**

**1 Eliminate in-valid identifier**

- (A) Data-rec (B) data\_rec (C)DATA\_REC\$ (D) data.rec

**2 Keyword used to define function in python**

- (A) definition (B) Function (C)def (D) DEF

**3 Output of the python statement print(10^10)**

- (A) 1111 (B) 0000 (C)0 (D)1

**4 Select identity operator**

- (A) is (B) not is (C)not in (D)in

**5 If a,b=10,11 then id of a and b will be**

- (A)Equal (B) Not equal (C) Can't calculate (D)None

**6 Which one is not correct type conversion**

- (A) int(7.0+0.1) (B) str(1.2\*3.4) (C)float (D)str(9/0)

**7 If a = 2+4j and b=2+4j then a+b will be**

- (A) 4+8j (B) 0+2j (C) 22+44j (D) 4+1j

**8 The loop will be executed no of times for i in range (1,100,10): print(i)**

- (A) 100 (B) 50 (C) 10 (D) 0 times

**9 Which is example of variable length argument function**

- (A) def test (B) def test(a,b) (C) def test(a&) (D) def test(\*a)

**10 return keyword is used to**

- (A) Pass the value in a function. (B) release the memory space  
(C) calling of function (D) value return to the calling function

# ENGLISH LANGUAGE & LITERATURE

**NOTE: Do the given homework in a separate notebook.**

**1. Read the following passage carefully and answer the questions that follow.**

1. Maharana Pratap ruled over Mewar only for 25 years. However, he accomplished so much grandeur during his reign that his glory surpassed the boundaries of countries and time turning him into an immortal personality. He, along with his kingdom, became a synonym for valour, sacrifice and patriotism. Mewar had been a leading Rajput kingdom even before Maharana Pratap occupied the throne. Kings of Mewar, with the cooperation of their nobles and subjects, had established such traditions in the kingdom, as augmented their magnificence, despite the hurdles of having a smaller area under their command and less population. There did come a few thorny occasions when the flag of the kingdom seemed sliding down. Their flag once again heaved high in the sky, thanks to the gallantry and brilliance of the people of Mewar.

2. The density of Mewar was good in the sense that barring a few kings, most of the rulers were competent and patriotic. This glorious tradition of the kingdom almost continued for 1500 years since its establishment, right from the reign of Bappa Rawal. In fact, only 60 years before Maharana Pratap, Rana Sanga drove the kingdom to the pinnacle of fame. His reputation went beyond Rajasthan and reached Delhi. Two generations before him, Rana Kumbha had given a new stature to the kingdom through victorious and developmental work. During his reign, literature and art also progressed extraordinarily. Rana himself was inclined towards writing and his works are read with reverence, even today. The ambience of his kingdom was conducive to the creation of high quality work of art and literature. These accomplishments were the outcome of a longstanding tradition, sustained by several generations.

The life of the people of Mewar must have been peaceful and prosperous during the long span of time; otherwise such extraordinary accomplishment in these fields would not have been possible. This is reflected in their art and literature as well as their loving nature. They compensate for lack of admirable physique by their firm but pleasant nature. The ambience of Mewar remains lovely, thanks to the cheerful and liberal character of its people.

One may observe astonishing pieces of workmanship, not only in the forts and palaces of Mewar but also in public utility buildings. Ruins of many structures which are still standing tall in their grandeur are testimony to the fact that Mewar was not only the land of the brave but also a seat of art and culture. Amidst aggression and bloodshed, literature and art flourished and creative pursuits of literature and artists did not suffer. Imagine, how glorious the period must have been when the VijayaStambha, which is the sample of our great ancient architecture even today, was constructed. In the same fort, KirtiStambha is standing high, reflecting how liberal then administration was, which allowed people from other communities and kingdoms to come and carry out construction work. It is useless to indulge in the debate, whether the VijayaStambha was constructed first or the KirtiStambha. The fact is the both the capitals are standing side-by-side and reveal the proximity between the king and subjects of Mewar.

The cycle of time does not remain the same. Whereas, the region of RanaSanga was crucial in raising the kingdom to the acme of glory; it also proved to be his nemesis. History took a turn. The fortune of Mewar; the land of the brave, started waning. Rana tried to save the day with his acumen which was running against the stream and the glorious traditions for some time.

**On the basis of your understanding of the passage, answer the following questions by choosing the most appropriate option. (1\*4=4)**

Q1) How did MaharanaPratap turn into an immortal personality?

- a) He ruled Mewar for 25 years
- b) He added a lot of grandeur to Mewar
- c) Of his valour, sacrifice and patriotism
- d) Both (b) and (c)

Q2) What were the difficulties in the way of Mewar?

- (a) Lack of cooperation of the nobility
- (b) Ancient traditions of the kingdom
- (c) Its small area and small population
- (d) The poverty of the subjects

Q3) What was the thorny occasion?

- (a) When the flag of Mewar seemed to be lowered
- (b) When the flag of Mewar was hoisted high
- (c) When the people of Mewar showed gallantry
- (d) Both (a) and (c)

Q4) Why was Mewar lucky?

- (a) Because all of its rulers were competent
- (b) Because most of its people were competent
- (c) Because most of its rulers were incompetent
- (d) Because only a few of its people were competent



**Answer the following questions in one word.**

Find a word from the passage (para-5) which means “the most perfect thing that can exist or be achieved”.

Find a word from the passage (para-5) which means “becoming weaker in strength”.

## **WRITING SECTION**

### **1 . NOTICE WRITING**

**You are Nayantara/Nayan of cl 12<sup>th</sup> A, Riverdale Convent School. You wish to donate your previous year’s textbooks. They are in quite a good condition. Write a notice to be put up on the school noticeboard informing the students of your school about it.**

### **2 . LETTER WRITING**

**1 You are Satish/Sonali, the student prefect incharge of the school library. You have been asked by your Principal to write a letter to place an order for children’s storybooks (10-13 years). Write a letter to M. S. Book Depot, Ramnagar, Bikaner placing an order for the books. Invent the necessary details.**

**2 You are interested in taking the British Council library membership in Delhi. Write a letter to The Head Librarian asking for the details and the required procedure. You are Ahmed/ Amina.**

**3 You are Rehan/Radhika. The increasing number of atrocities on women in the society has left you disturbed and worried. Write a letter the the Editor of The Hindu expressing your opinion on the issue.**

## LITERATURE SECTION

Extract based questions

1 . For a moment I thought of running away and spending the day out of doors. It was so warm, so bright! The birds were chirping at the edge of the woods; and in the open field back of the sawmill the Prussian soldiers were drilling. It was all much more tempting than the rule for participles, but I had the strength to resist, and hurried off to school.

- A . What did Frank think for a moment?
- B . Why did he think so?
- c . What were the Prussians doing?
- D . What were more tempting than the rule for participles?

2 . . . . .but soon

put that thought away, and

looked out at a young

trees sprinting, the merry children spilling

out of their homes...

- A . Which thought did the poet put away?
- B . What do the “sprinting trees” signify?
- C . What are “the merry children spilling out of their homes’ symbolic of?
- D . Why are trees ‘young’ here?

## **SHORT ANSWER TYPE QUESTIONS**

- 1 . What were Kamala Das' fears as a child? Why do the fears surface when she is going to the airport?
- 2 . How does the poet describe the classroom walls?

## **LONG ANSWER TYPE QUESTIONS**

- 1 .Everybody during the last lesson is filled with regret. Comment.
- 2 . Give a brief account of the life and activities of people like Saheb-e-Alam settled in Seemapuri ?

## **REVISE ALL CHAPTERS OF UT 1**

**LANGUAGE- COMPREHENSION, NOTICE, CARD INVITATION & REPLY, FORMAL LETTER TO THE EDITOR & JOB LETTER**

**LIT- THE LAST LESSON, LOST SPRING, MY MOTHER AT SIXTY SIX, KEEPING QUIET, THE THIRD LEVEL AND THE TIGER KING.**

## **PROJECT WORK**

**Make an ALS project Portfolio File including introductory page with all information, Index, Certificate, and Acknowledgement.**

**Compulsory pages**

**FRONT PAGE**

**INDEX**

**CERTIFICATE**

**ACKNOWLEDGEMENT**

**TASKS**

**EVOLVING FOOD TASTE IN YOUR NEIGHBOURHOOD**

**RESEARCH+INTERVIEW=REPORT**

**CORONA PANDEMIC AND FALLOUT ON FAMILIES**

**RESEARCH+INTERVIEW=REPORT**

**PODCAST- LISTEN ANY INTERVIEW OF A CELEBRITY ANDWRITE A REPORT**

**SHORT SUMMARY OF ANY PLAY WITH CRITICAL APPRECIATION**

**IN A CD –MAKE A VIDEO EXPLAINING THE POEM “A THING OF BEAUTY”**

**SUSAN HILL-PHOTO+BIOGRAPHY**

**CHAPTER-“ON THE FACE OF IT”**

**SHORT SUMMARYAND CHARACTERSKETCH OF BOTH CHARACTERS**

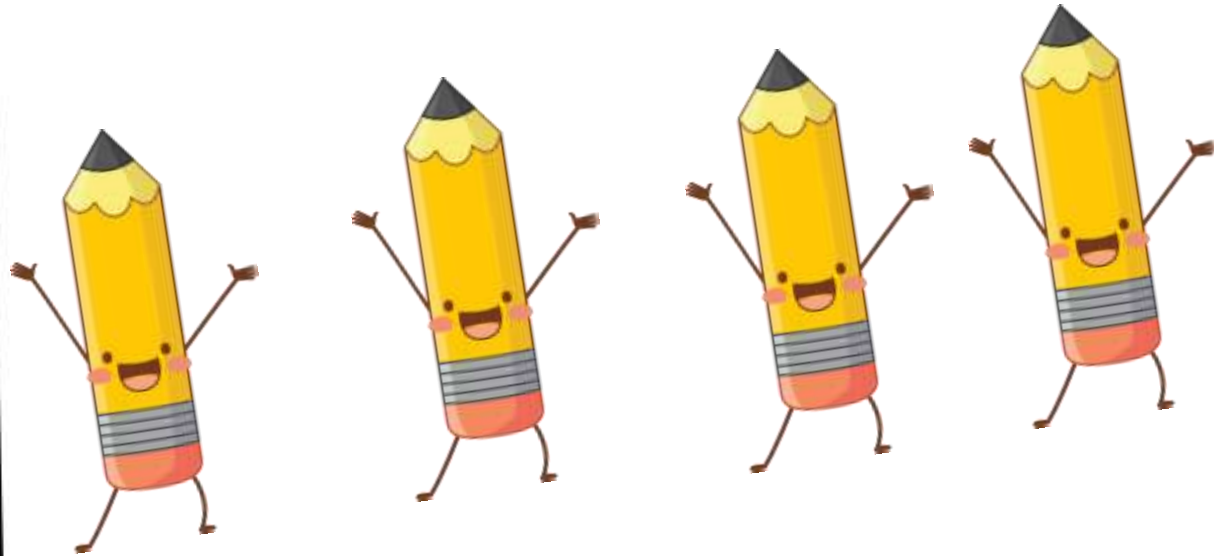
# PHYSICAL EDUCATION

Make the Project file Related Games ( Cricket, Football, Basketball, Kabaddi, Badminton, Kho-Kho ) Minimum- 20 Pages  
Find photos from magazine and newspaper you can take help of Internet.( Under Parental guidance )

## WORK EXPERIENCE

PROJECT-1 – Study the nutrition and health status of people in a peer group/village/city slum/tribal area/neighbourhood.

PROJECT-2- Acquaintance with local arts and culture



ENJOY YOUR HOLIDAYS