



**JAYCEES PUBLIC SCHOOL**  
"LEAD FROM DARK TO LIGHT"

# **Class IX**

## **(Holiday Homework)**



**-Intelligence plus Character that is the goal of true education**

**Stay Home! Stay Safe! Stay Healthy!**



**JAYCEES PUBLIC SCHOOL**  
"LEAD FROM DARK TO LIGHT"

**Dear parents**

**With summer vacation around the corner, it is time to rejuvenate and rewind ourselves but at the same time it is pertinent that we engage our children in some fruitful activities. For the same, we have designed holiday homework keeping in mind the limited availability of resources, to enrich the children with the much required in-depth learning, strengthened output and to prepare ground for improved academic output.**

**As parents, kindly encourage your children to complete work on their own for your motivation and encouragement can make a world of a difference.**

**REGARDS,**

**JPS.**



**JAYCEES PUBLIC SCHOOL**  
"LEAD FROM DARK TO LIGHT"

**HINDI**

1. "दुःख का अधिकार" पाठ में किसकी अनुभूति की बात की गई है?

क. दुःख की

ख. कल्पना की

ग. अकल्पना की

2. यह कहानी क्या उजागर करती है?

क. धनी लोगों की अमानवीयता

ख. गरीबों की मजबूरी

ग. उपर्युक्त दोनों

3. कहानी का प्रमुख पात्र किसे माना गया है?

क. अधेड़ औरत को

ख. युवा नारी को

ग. बालिका को



**JAYCEES PUBLIC SCHOOL**  
"LEAD FROM DARK TO LIGHT"

4. भगवाना की मृत्यु का क्या कारण था?

क. दिल का दौरा

ख. सांप का काटना

ग. जहर खाना

5. बुढिया के घर में कौन-कौन है?

क. उसका पति

ख. उसकी सास

ग. बहू व पोता-पोती

6. लेखिका एवरेस्ट की चोटी पर कब पहुंची ?

क. 25 जनवरी, 1984

ख. 28 सितंबर, 1984

ग. 23 मई, 1984

7. लेखिका अपने साथ एवरेस्ट पर क्या लेकर गई?



**JAYCEES PUBLIC SCHOOL**  
"LEAD FROM DARK TO LIGHT"

क. थैले में दुर्गा माँ का चित्र

ख. हनुमान चालीसा

ग. उपर्युक्त दोनों

8. एवरेस्ट यात्रा कहाँ से आरंभ की गई की गई?

क. दिल्ली से काठमांडू

ख. सागर माथा से

ग. हिमालय के पर्वतों से

9. लेखिका को किन कठिनाइयों का सामना करना पड़ा ?

क. हिमपात ग्लेशियरों का, तूफानों का

ख. पहाड़ियों के धसकने का, बर्फ की चट्टानों के टूटने का और हिम विदर

ग. उपर्युक्त दोनों सही

10. रहीम के दोहो से क्या शिक्षा दी गई है?

क. लोक व्यवहार की

ख. धैर्य और समझदारी की



**JAYCEES PUBLIC SCHOOL**  
"LEAD FROM DARK TO LIGHT"

ग. उपर्युक्त दोनों सही

11. रहीम जी ने दूसरों से कैसे भाव रखने की प्रेरणा दी है?

क. असहयोग के

ख. प्रेम के

ग. ईर्ष्या के

12. "तरवारि" शब्द का क्या अर्थ है ?

क. छुरी

ख. तलवार

ग. चाकू

13-अतिथि कितने दिनों से लेखक के घर पर रह रहा है ?

क. 3 दिन

ख. 4 दिन

ग. 5 दिन

14-पंचमाक्षर कौन- से हैं ? उपयुक्त विकल्प चुनिए-



**JAYCEES PUBLIC SCHOOL**  
"LEAD FROM DARK TO LIGHT"

क-ङ्, ज्, ण्, न्, म्

ख-न, म, ड, घ, भ

ग- ब, ढ, ड, न, म

15-वर्णों के मेल से बने स्वतंत्र व सार्थक ध्वनि समूह को क्या कहते हैं ?

क-पद

ख- शब्द

ग- पदबंध

16-"योगाभ्यास से होने वाले लाभ" विषय पर दो मित्रों के बीच हुई बातचीत को लगभग 50 शब्दों में संवाद रूप में लिखिए।

17-"स्वच्छता अभियान" विषय पर नारा लेखन (स्लोगन) लिखिए।

18-अपने दादा जी को एक पत्र लिखिए जिसमें उनके आदर्शों पर चलने से परीक्षा में मिली अभूतपूर्व सफलता के बारे में बताया गया हो।



**JAYCEES PUBLIC SCHOOL**  
"LEAD FROM DARK TO LIGHT"

## ENGLISH

### Project 1

Read your favourite book and design an interesting Book Cover based on the story along with the main points of the story and characters involved.

### Project 2

Prepare a questionnaire to discuss the online classes with other students and paste the questionnaire with the answers in the File.

### Project 3

Diary entry is an excellent way to express your feelings. Write diary entry of any five: memorable days of your summer vacations.

### Project 4

Prepare a project report on any one of the following topics:

- 1) Life history and achievements of Ruskin Bond.
- 2) Advancement in science and technology.





**MATHEMATICS**

- Q1. Write the reciprocal of  $5+\sqrt{2}$ .
- Q2. If  $x=3+2\sqrt{2}$ , find the value of  $x^2 + (1/x^2)$ .
- Q3. If  $x^2 + (1/x^2) = 27$ , find the value of  $x-(1/x)$ .
- Q4. If  $3x-7y = 10$  and  $xy = -1$ , find the value of  $9x^2 + 49y^2$ .
- Q5. If  $a+b+c = 9$  and  $ab+bc+ca = 23$ , find the value of  $a^3+b^3+c^3-3abc$ .
- Q6. Factorise    a)  $4\sqrt{3}x^2 + 5x - 2\sqrt{3}$                       b)  $x^2 + 3\sqrt{3}x - 30$
- Q7. Find the values of a and b so that  $(x+1)$  and  $(x-1)$  are factors of  $x^4 + ax^3 - 3x^2 + 2x + b$ .
- Q8. Factorise :  $x^3-10x^2-53x-42$ .
- Q9. Draw the graphs of the equations :  $3x-2y = 4$  ,  $x+y-3=0$  and write the coordinates of the point where the graphs intersect.
- Q10. Give the geometrical representation of the equation  $3x-1 = 2x+1$  as an equation in
- a) One variable    b) two variables
- Q11. If each side of a triangle is doubled , then find percentage increase in its area?



Q12. A square and an equilateral triangle have equal perimeters . If the diagonal of the square is  $12\sqrt{2}$  cm, then find the area of triangle ?

Q13. Two parallel sides of a trapezium are 60cm and 77cm and other sides are 25cm and 26cm. Find the area of the trapezium?

Q14. The sides of a quadrangular field, taken in order are 26m,27m,7m and 24m respectively. The angle contained by the last two sides is a right angle. Find its area?



Q1. Collect pictures of various peripheral devices from old magazines or newspapers and paste them on A4 sheet under the following categories-

Input devices

Output devices

Processing Unit

Storage unit

Q2. Create a 'Types of software' chart on A4 size sheet and draw/paste atleast 3 logos of softwares each category.



SCIENCE

**PHYSICS:**

1. Distinguish between speed and velocity.
2. When will you say a body is in- a) uniform and b) non-uniform acceleration?
3. An athlete completes one round of a circular track of diameter 50 m in 10 sec. What will be the distance covered and the displacement at the end of 45 s?
4. Give an example with the definition of uniform motion and non uniform motion.
5. What are the 3 cases of acceleration, explain in brief?
6. A train travels some distance with a speed of 30 km/h and returns with a speed of 45 km/h. Calculate the average speed of the train.
7. A car is moving on straight road with uniform acceleration. The following table gives the speed of the car at various instants of time:-

Time(s)	0	10	20	30	40	50
Speed(m/s)	5	10	15	20	25	30

Draw the speed time graph choosing a convenient scale. Determine from it -(a) the acceleration of the car



(b) the distance travelled by the car in 50 sec.

8. Explain with an example the difference between distance and displacement.

9. A car acquires a velocity of 72 km/h in 10 seconds starting from rest. Find- (a) the acceleration (b) the average velocity (c) the distance travelled in this time

OR Explain the different types of Velocity-Time graph.

10. Derive Newton's second equation of motion by graphical method.

## **CHEMISTRY:**

1. How temperature in the Celsius and the Kelvin scales are related to each other? Convert 375K to  $^{\circ}\text{C}$ .

2. Explain- a) Gases exert pressure on the walls of the container. b) Evaporation causes cooling.

3. Which phenomenon occurs during the following changes?

- a) formation of clouds    b) drying of wet clothes,    c) wax melts in the sun  
d) size of naphthalene balls decreases.

4. People sprinkle water on open ground or roof on a hot sunny day. Why?

5. With the help of an activity show that gases are more easily compressible than liquids and solids.

6. Difference between evaporation and Boiling. Give any three differences.



7. You want to wear your favourite shirt to a party, but the problem is that it is still wet after a wash. What steps would you take to dry it faster?
8. Define diffusion. Explain the rate of order of diffusion in solids, liquids and gases. What is the effect of temperature on diffusion.
9. Classify the substances given into elements, compounds and mixtures:-  
Chlorine gas, potassium chloride, Iron, Air, Iron sulphide, Aluminium, Soil, Iodine, carbon monoxide, sulphur
10. Differentiate between Mixture and Compound with appropriate example.

## **BIOLOGY:**

1. Draw a well-labelled figure of a plant cell highlighting following cell organelles- mitochondria, chloroplast, endoplasmic reticulum, dictyosome & cell wall.
2. With the help of a well-labelled figure explain nervous tissue & meristematic tissue.
3. Compare the following-
  - a. Parenchyma & collenchyma
  - b. Meristematic tissue & permanent tissue
  - c. Xylem & phloem.
4. By what common names does the following cell organelles known-
  - a. Mitochondria
  - b. Nucleus



- c. Chloroplast
- d. Lysosomes
- e. Ribosomes

Also mention why they are called so.



## **HISTORY:**

1 Short ans

- a Which ruler came to power in France in 1774?
- b What was a Manor?
- c What was Marseilles?
- d Who introduced reign of terror in France?
- e When was slavery finally abolished in France?

2 MCQs

- 1 2 Treaties of government a Rousseau b Locke
- c Montesquieu d No one

2 Directory mean

- a Legislature b dictator v Executive made of 5 members. d name.



**JAYCEES PUBLIC SCHOOL**  
"LEAD FROM DARK TO LIGHT"

3 Jadidists

a followed Judaism b Socialist Party c Muslims reformer d Social Democrats.

3 Short note

October Revolution, Bloody Sunday, Radicals, Liberals.

4 Show On the map of France

Triangular slave trade, Paris, Central Power, Alliance

## **CIVICS:**

1. Make cartoons of different leaders.
2. Flow Chart on Why democracy is important?

## **GEOGRAPHY:**

1. Prepare a Power Point Presentation (PPT)

OR

Prepare an Assignment

any one of the following topics:

- i) Himalayan Mountain
- ii) Northern Plain
- iii) Peninsular Plateau



**JAYCEES PUBLIC SCHOOL**  
"LEAD FROM DARK TO LIGHT"

Explain topic under the following headings : - \*Location

\*Formation

\*Division

\*Main Features

\*High peaks, ranges , main Stations

\*Places/ glaciers etc.

\*Flora and fauna

(Use pics and Physical map )

## **ECONOMICS:**

1. Make a table showing comparison of modern and orthodox methods of farming and tell advantages and disadvantages of both the farming methods.
2. Compare people's development of 5 different countries on the basis of education and health, elaborate the comparison by the importance of human development.

\*NOTE:\*

PPT / Assignment should have maximum 10 slides/ pages .