

# STEPHENS

INTERNATIONAL PUBLIC SCHOOL



**Holidays' Homework**

**Session – 2021-22**

**Class : 9th**

## Subject : English

### SUBJECT ENRICHMENT ACTIVITY

#### Integrated Grammar

- Q1. Complete the following passage by lifting in the blanks with one in each blank space. Write the answer in the space provided against the correct blank space.
- (i) Aayush had arrived Chandigarh (a) ..... day before by (b) ..... Rajdhani Express to attend (c) ..... uncle's wedding the (d) ..... day. Almost (e) ..... the relatives had already arrived. There was (f) ..... excitement in the house. The evening was particularly thrilling. (g) ..... men and women present in the house performed Bhangra and Gidda. The Barat left for Solan the next morning. The fleet had hardly covered an (h) ..... kilometres when (i) ..... rear tyres of a jeep got punctured. (j) ..... the vehicles had to be stopped. The driver replaced (k) ..... tyres and the journey resumed. After covering about 15 miles (l) ..... trouble appeared. (m) ..... Barat is began vomiting due to vertigo feeling on zigzag roads. Anyhow, the Barat reached Solan at about 1:00 p.m. (n) ..... person was given a warm welcome by the hosts.
- (ii) The national food is what (a) ..... people of (b) ..... particular country eat most often. Rice with (c) ..... accompaniment is popular in most parts of (d) ..... country. In (e) ..... north, however, wheat is (f) ..... most popular cereal.

#### Writing

- Q2. (i) One of your friends, Raman, is very gentle and polite to you. You regard him as your best friend. Describe him in 100-150 words.
- (ii) Write a story in about 120-150 words taking the help of hints given below:  
Mr. Aggarwal was a very wealthy businessman. One day he was alone sitting at his dining table when....  
**Outline:** Thief entered..... Mr. Aggarwal thanked..... to give company..... birthday ..... gave him good food and drinks..... gave a purse full of silver coins..... years passed by..... fortunes changed..... business was ruined..... Mr. Aggarwal became poor..... 50th birthday ..... alone..... no food..... no drinks..... bell rang..... a man emerged..... recognised..... the old thief..... came with fruits, sweets and drinks and a bag full of money.

#### Literature

- Q3. Write down the character of Gerrard or Intruder (From chapter 'If I Were You')

## Subject : Hindi

- प्र:1. पाठ – 'दिए जल उठे' के सभी प्रश्न-उत्तर को याद करें।
- प्र:2. पढ़ाई गई कविताओं के सभी प्रश्न-उत्तर को याद करें।
- प्र:3. दिए गए विषयों में से किसी एक विषय पर सुंदर सी वीडियो बनाकर भेजें।
- (i) कोरोना एक महामारी
  - (ii) समय का महत्त्व
  - (iii) विद्यार्थी और अनुशासन
  - (iv) राजभाषा हिन्दी

## Subject : Mathematics

### SUBJECT ENRICHMENT ACTIVITY

1. To show that the quadrilateral formed by joining the midpoints of the adjacent sides of a quadrilateral is a parallelogram by folding paper.
2. To explore the similarities and differences between the different quadrilaterals like parallelogram, rectangle, rhombus and square with respect to their diagonals.
3. To verify that angle in a semicircle is a right angle, angle in a major segment is acute angle and angle in minor segment is an obtuse by folding paper.

## Subject : Science

### SUBJECT ENRICHMENT ACTIVITY

#### PHYSICS

1. An object of mass 20 kg is dropped from a height of 4 m. Fill in the blanks in the following tables by computing the potential energy and kinetic energy in each case. Take  $g = 10 \text{ m/s}^2$ .

Height at which object is located	Potential energy ( $E_p = mgh$ )	Kinetic energy ( $E_k = mv^2/2$ )	$E_p + E_k$
m	J	J	J
4			
3			
2			
1			
Just above the ground			

- Q2. Calculate the electricity bill amount for a month of April, if 4 bulbs of 40 W for 5 h, 4 tube lights of 60 W for 5 h, a TV of 100W for 6 h, a washing machine of 400 W for 3 h are used per day. The cost per unit is rupees 1.80.
- Q3. Compare the power with which each of the following is moving upward against the force of gravity?
- A butterfly of mass 1 g that flies upward at a rate of 0.5 metre per second.
  - A 250 g squirrel climbing up on a tree at a rate of 0.5 metre per second.

#### BIOLOGY

- Q1. Dependence on non-renewable resources of energy not only destroys our environment but also destroys life on earth to the extent that one day our green planet will not have any trace of life. Make a PowerPoint Presentation to show the different applications of renewable resources of energy and how they can protect us as well as our environment.
- Q2. Write five differences between renewable and non renewable resources of energy.
- Q3. What do you mean by sustainable development? What is its significance?
- Q4. Write down the Sources, Effects and Preventive measures for the following:
- Global warming
  - Acid Rain
  - Ozone layer depletion
- Q5. What are different effects of noise pollution on animals?



## CHEMISTRY

- I. Draw and learn the detailed electronic configuration of the elements from the given table:

Element	Symbol	Number of electrons	1 <sup>st</sup> shell	2 <sup>nd</sup> shell	3 <sup>rd</sup> shell	4 <sup>th</sup> shell	Electron configuration
Hydrogen	H	1	1				1
Helium	He	2	2				2
Lithium	Li	3	2	1			2,1
Beryllium	Be	4	2	2			2,2
Boron	B	5	2	3			2,3
Carbon	C	6	2	4			2,4
Nitrogen	N	7	2	5			2,5
Oxygen	O	8	2	6			2,6
Fluorine	F	9	2	7			2,7
Neon	Ne	10	2	8			2,8
Sodium	Na	11	2	8	1		2,8,1
Magnesium	Mg	12	2	8	2		2,8,2
Aluminium	Al	13	2	8	3		2,8,3
Silicon	Si	14	2	8	4		2,8,4
Phosphorus	P	15	2	8	5		2,8,5
Sulphur	S	16	2	8	6		2,8,6
Chlorine	Cl	17	2	8	7		2,8,7
Argon	A	18	2	8	8		2,8,8
Potassium	K	19	2	8	8	1	2,8,8,1
Calcium	Ca	20	2	8	8	2	2,8,8,2

- II. Write the following questions along with their answers on the assignment sheets.

- Q1. On the basis of Thomson's model of an atom, explain how the atom is neutral as a whole?
- Q2. Where are electrons found?
- Q3. Why is the nucleus of an atom positively charged?
- Q4. Write the relation between mass number and atomic number.
- Q5. Find the valency of  ${}^4_2\text{He}$  and  ${}^{14}_4\text{N}$ .
- Q6. Complete the following table:

Symbol	Z	A	N
S	16		16
Cs	55	133	
Pb		208	126

- Q7. Make a sketch of the atoms of lithium, boron and calcium.
- Q8. Give the electronic configuration of  $\text{Cl}^-$  ion.

## Subject : Social Science

### A. PROJECT WORK

#### Chapter: Natural Vegetation and Wild Life (Locating and Labelling)

- National Parks: Corbett, Kaziranga, Ranthambor, Shivpuri, Kanha, Simlipal and Manas
- Bird Sanctuaries: Bharatpur and Ranganthitto
- Wild Life Sanctuaries: Sariska, Mudumalai, Rajaji, Dachigam

### B. GENERAL QUESTIONS:

Questions are based on **WORKING OF INSTITUTIONS** chapter. Read the chapter and answer to these questions:

- Q1. Which House has more power regarding the money bill? Give reason.  
Q2. How does Lok Sabha exercise supreme power?  
Q3. Why are people allowed to go to courts against the government's decisions?  
Q4. Describe any three jurisdiction powers of the Supreme Court in India.

### IMPORTANT INSTRUCTIONS

- A. Project work must be done on political Map of India.
- All the maps must be pasted on the scrap book.
- B. General questions must be written in Separate notebook.
- Relevant pictures must be pasted in the blank side of the sheet.

## Subject : Computer

**Design a colourful PowerPoint presentation on Green Skills.**

### Instructions:-

- Create 8-9 Slides.
- In First slide, enter your Name along with picture, Class, Section and Roll no.
- Apply various text formatting options for the text.
- Assign color borders and background to the paragraph.
- Insert Images, shapes, and Special characters in the document.
- Assign Number or Bullets to list items.
- Save presentation with your name & Section and mail it to your subject teacher.

Happy Holidays