

# PUBLIC SCHOOL DARBHANGA

Summer Vacation Assignment : 2022

Class : IX

## Subject : Social Science

1. Write the contributions of different philosophers in the French revolution.
2. Draw a map of India & show the major physicography divisions of India!
3. Describe how democracy is better than any other forms of government.
4. Describe the story of village Palampur ?

## Subject : Science

1. Draw figure of Circular motion with formula on Chart paper (with definition, example etc).
2. Draw and prove the following equation of motion.  
(a)  $V = u + at$  (b)  $S = ut + \frac{1}{2} at^2$  (c)  $V^2 - u^2 = 2as$
3. Write all definitions of chapter Motion on chart paper.
4. Draw modern periodic table on chart paper.
5. Revise and write fair copy with question – Answers of taught chapter.
6. Draw ultra-structure of plant cell and animal cell on chart paper with neat, coloured and labelled diagrams.
7. Write detailed explanation of DNA through neat clean coloured clear sparking diagram.

## Subject : Hindi

1. प्रेमचंद्र और राहुल सांकृत्यायन' के व्यक्तित्व और कृतित्व के विषय में विस्तार पूर्वक लिखें।
2. 'आतंकवाद' और प्रदूषण' विषय पर निबन्ध लिखें।

## Subject : Sanskrit

1. अध्याय – 02 और 03 का शब्दार्थ याद करना है।
2. अध्याय – 02 (स्वर्णकाकः) का शारांश हिन्दी में लिखें।
3. निम्न का संधि करें :- (i) विद्या + आलयः - (ii) भानू + उदयः -  
(iii) महा + ऋषिः - (iv) तत्र + एव -
4. निम्न को संस्कृत में लिखें।  
(i) 6 : 00 - (ii) 8 : 15 - (iii) 9 : 45 - (iv) 10 : 30 -  
(v) 7 : 15 -
5. देव, मुनि, लता अस्मद् और युष्मद् का शब्दरूप लिखें। -
6. गम्, पठ्, लिख्, चल धातु का रूप पाँचों लकारों में लिखें।

## Subject : English

1. Write the biography on each of these – (180 words)  
(a) Robert Frost (b) Mulk Raj Anand
2. Write these letters – (a) To your father on 'Father's Day' highlighting your love, respect and admiration for him.

PTO

(b) During summer vacations children are glued to the television most of the time. Write a letter to the director, Doordarshan suggesting new programmes you would like to be shown to the children. You are resident of 41, Brij Vihar Colony New Delhi.

3. A number of festivals are celebrated in different parts of India in a variety of ways. Write an article on (Idea – A country of Festival' (More than 150 words).

**Subject : Maths**

1. Collect some quotient number from our daily life situations and represent them on the number line.
2. Write two different rational number in our daily life and find three irrational number between them.
3. What do you know about remainder theorem, prove it.
4. Prove Algebraic Identities  
(a)  $(a+b+c)^2$       (b)  $a^2 + b^2$

**Coordinate Geometry**

1. Write Cartesian system
2. Plot the points (x, y) given the following table on the plane, choosing suitable units of distance on the axes ;

X	-2	-1	0	1	3
Y	8	7	-1.25	3	-1

1. To prove that the area of triangle  $\sqrt{s(s-a)(s-b)(s-c)}$
2. A rhombus shaped field has green grass for 18 cows to graze. If each side of the rhombus is 30 m and its longer diagonal is 48m, how much area of grass field will each cow be getting.