

DATE OF SUBMISSION FOR ASSIGNMENT 15<sup>TH</sup> NOVEMBER 2011  
DIWALI HOLIDAYS ASSIGNMENT  
GRADE : IX

ENGLISH

Teenager's Internet usage: Opinion and Reality

On the basis of your experience and by conducting a survey amongst your peer group in school and society ,give detailed information for the following:

- Boys' net usage is less than girls
- Internet use causes a person to become socially isolated and depressed
- Adolescents use the Internet as an secret identity playground

(You have to make a questionnaire for all the three prepositions. (Minimum 10 question for each), Do the data analysis and write a detailed report in 500 -600 words.( to submit questionnaire and report in A4 size sheets)

HINDI

कविता : "एक फूल की चाह" (स्पर्श -१) के कवि का परिचय लिखते हुए कविता को कहानी के रूप में बदलकर लिखिए।

MATHS

Linear Equations in Two Variables

**Question 1:** The cost of a notebook is twice the cost of a pen. Write a linear equation in two variables to represent this statement. (Take the cost of a notebook to be Rs  $x$  and that of a pen to be Rs  $y$ .)

**Question 2:** Express the following linear equations in the form  $ax + by + c = 0$  and indicate the values of  $a, b, c$  in each case:

(i)  $-2x + 3y = 6$  ,(ii)  $x = 3y$  ,(iii)  $2x = -5y$  ,(iv)  $3x + 2 = 0$  ,(v)  $y - 2 = 0$  ,(vi)  $5 = 2x$

**Question 3:** Which one of the following options is true, and why?  $y = 3x + 5$  has

(i) a unique solution, (ii) only two solutions, (iii) infinitely many solutions

**Question 4:** Write four solutions for each of the following equations:

(i)  $2x + y = 7$ , (ii)  $\pi x + y = 9$  ,(iii)  $x = 4y$

**Question 5:** Check which of the following are solutions of the equation  $x - 2y = 4$  and which are not:

(i) (0, 2) ,(ii) (2, 0) ,(iii) (4, 0) ,(iv) (1, 1)

**Question 6:** Find the value of  $k$ , if  $x = 2, y = 1$  is a solution of the equation  $2x + 3y = k$ .

**Question 7:** Draw the graph of each of the following linear equations in two variables:

(i)  $y = 3x$  (ii)  $3 = 2x + y$

**Question 8:** Give the equations of two lines passing through (2, 14). How many more such lines are there, and why?

**Question 9:** If the point (3, 4) lies on the graph of the equation  $3y = ax + 7$ , find the value of  $a$ .

**Question 10:** The taxi fare in a city is as follows: For the first kilometre, the fares is Rs 8 and for the subsequent distance it is Rs 5 per km. Taking the distance covered as  $x$  km and total fare as Rs  $y$ , write a linear equation for this information, and draw its graph.

**Question 11:** If the work done by a body on application of a constant force is directly proportional to the distance travelled by the body, express this in the form of an equation in two variables and draw the graph of the same by taking the constant force as 5 units. Also read from the graph the work done when the distance travelled by the body is

(i) 2 units (ii) 0 units

**Question 12:** Yamini and Fatima, two students of Class IX of a school, together contributed Rs 100 towards the Prime Minister's Relief Fund to help the earthquake victims. Write a linear equation which satisfies this data. (You may take their contributions as Rs  $x$  and Rs  $y$ .) Draw the graph of the same.

**Question 13:** Give the geometric representation of  $y = 3$  as an equation

(I) in one variable (II) in two variables

**Question 14:** Give the geometric representations of  $2x + 9 = 0$  as an equation

(1) in one variable (2) in two variables

Quadrilaterals

Prepare 25 Multiple choice question from the chapter Quadrilaterals.

(Assignments is to be submitted in A4 size sheets)

SCIENCE

L-7 ( Biodiversity)

- Make a power point presentation on classification of plants ( 5 kingdom classification along with diagram & example) & Animals ( 10 groups of animals along with dia. & example ) and write a report on your presentation in 10- 12 pages (A4 size sheets)**
- Answer the following questions:**
  - Living things are classified into 5 kingdoms. Can you name them?
  - Can you complete this sentence?  
The A \_\_\_\_\_ K \_\_\_\_\_ has animals with backbones: these are called v \_\_\_\_\_; and animals without backbones: these are called i \_\_\_\_\_.
  - Write 4 types of v \_\_\_\_\_ animals.
  - Now write 4 i \_\_\_\_\_ animals.
  - The plant kingdom is divided into 2 subgroups. See if you can complete the words below to show each subgroup.  
F \_\_\_\_\_ P \_\_\_\_\_.  
N \_\_\_\_\_ - F \_\_\_\_\_ P \_\_\_\_\_.
  - Green plants contain c \_\_\_\_\_ so they can make their own food.
  - Fungi are not green because they do not contain c \_\_\_\_\_.
  - Fungi do not make their own food, they feed on v \_\_\_\_\_ and a \_\_\_\_\_ matter.
  - Protists are simple animals and are made up of o \_\_\_\_\_ c \_\_\_\_\_.
  - Write an example of a protist \_\_\_\_\_.

SOCIAL SCIENCE

Research and prepare a folder (A4 size sheets)

- Which areas around the world are most vulnerable to earthquakes and why? What are the major problems dealing with earthquakes in different areas?
  - Investigate the current earthquake risks in your area. If there are none currently, have there ever been earthquakes there in the past? Why, and why aren't there any now?
  - Find the most effective ways to prepare for an earthquake. Test the effectiveness of different types of earthquake brackets and straps, etc. Determine the safest places to be inside the house, outside, in car, etc. Prepare on earthquake plan for your family, class, school.
- Prepare a PPT on earthquake which occurred in Sikkim recently and write a report in 400 – 450 words.