

D.A.V. PUBLIC SCHOOL, BISTUPUR, JAMSHEDPUR  
SUMMER HOLIDAY HOME WORK  
SESSION: 2018 - 19  
STD: IX

English:

1. Write a diary entry expressing your feelings about the most enjoyable day of your vacation.
2. The chapter 'The Sound of Music' is about Evelyn Glennie who fought against her physical disability and made her life a success story. Select any one of the achievers mentioned below and collect more information about him/her. (Word limit: 120-150 words)

**Achievers:**

- |                                |                              |
|--------------------------------|------------------------------|
| <b>a. Stephen Hawking</b>      | <b>d. Albert Einstein</b>    |
| <b>b. John Milton</b>          | <b>e. Thomas Alva Edison</b> |
| <b>c. Ludwig van Beethoven</b> | <b>f. Helen Keller</b>       |

\*\*You may include the following aspects:

- place of birth - childhood - education
- disability - problems faced - support from family and friends
- determination to excel
- achievement

3. Complete the following sentences with the correct preposition.
  - a. We are very excited .....our trip to Spain next week.
  - b. At the moment, she is recovering ..... her injuries.
  - c. I am responsible .....training new recruits.
  - d. She insisted.....helping me with the dishes.
  - e. He graduated .....Oxford university.
  - f. Ten people were killed when a bus collided.....a car.
  - g. I was not quite satisfied .....the exam results.
  - h. We decided .....buying the new car.
  - i. The president was thankful .....everyone who helped in the campaign.
  - j. My cousin is married .....a famous American.
4. Choose the correct form of the verb in the following sentences.
  - a. Harsh's spectacles.....(was/were) lost on his journey to Manipal.
  - b. My uncle and guardian .....(want/wants) me to start my own business.
  - c. Neither Raju nor Sheela.....(has/have) come first in the race.
  - d. The industrialist and the politician.....(has/have) been invited to the function.
  - e. Neither of the boxers .....(was/were) able to score a decisive victory.
  - f. The players as well as the captain.....(want/wants) to win.
  - g. A catalog of courses and requirement often .....(confuse/confuses) students.
  - h. My aunt, as well as my cousins (has/have) been sick this past week.
  - i. Some of the fruit (has/ have) already begun to ripe.
  - j. One hundred dollars.....(is/are) being offered for information about the crimes .

NB: 1. Holiday homework has to be done in a separate copy (120 pages) and submit to the subject teacher on 19/06/2018.

2. Copy down the questions and then answer it.

### Hindi:

- 1 भक्तिकाल के किन्हीं तीन कवियों के व्यक्तित्व और कृतित्व पर एक प्रोजेक्ट बनाइए।
- 2 निबंध लिखें – युवा शक्ति और भारत
- 3 चुनाव को लेकर दो मतदाताओं के बीच संवाद की योजना कीजिए।

### Maths:

#### A). Project : MATHEMATICAL SYMBOLS

Make an illustrative project file in the group of 10 students under the criterion :

- (i) Search 10 new mathematical symbols from the internet, books ,magazines etc.
- (ii) Collect information about their origin ,meaning and their use in different areas of mathematics .
- (iii) Suggest your own mathematical symbol if any, you find more suitable .

B). Explore : To collect information for demonstration of different identities by paper folding method .  
And do proper practice for that ( it can be square of sum / difference of two or more nos. )

#### C). Assignments ( To be done in homework copy )

- Factorise :
- |                                 |  |
|---------------------------------|--|
| 1) $a^4 - b^4$                  | 2) $x^2 - y^2 + 6y - 9$                                    |
| 3) $1 - 2ab - (a^2 + b^2)$      | 4) $27p^3 - \frac{1}{216} - \frac{9}{2}p^2 + \frac{1}{4}p$ |
| 5) $a^2 + 3p - 108$             | 6) $6x^2 + 17x + 12$                                       |
| 7) $a^3 - 7a + 6$               | 8) $x^3 - 23x^2 + 142x - 120$                              |
| 9) $a^3 - 8b^3 - 64c^3 - 24abc$ | 10) $x^3 + \frac{1}{x^3} - 2$                              |

#### D). Activity : ( To be done in lab record book/lab manual )

- 1) Show irrational numbers on number line by spiral method.
- 2) Show geometrically :  $(a + b + c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$
- 3) Show :  $(a + b)^3 = a^3 + b^3 + 3a^2b + 3ab^2$  ( by making its model )

4) Prove angle sum property of any quadrilateral .

### Physics:

1. A stone is thrown vertically upward with an initial velocity of 40m/s. Draw the velocity-time graph of the motion of stone till it comes back on the ground.
  - i )Find the total distance covered and net displacement by the stone.
  - ii )Use the graph to find the maximum height reached by the stone.
2.
  - i ) What does the slope of a displacement time graph represents?
  - ii) Can displacement- time sketch be parallel to the displacement axis? Give reason to your answer.
3. A merry-go round of 10 metre radius, with children sitting on it, is revolving at the rate of 1 rpm. Calculate the speed of the children sitting on it and their angular velocity.
4. A car travels a certain distance with a speed of 50 km/hr and returns with speed of 40 km/hr. Calculate the average speed after the whole journey.
5. A train starting from rest and moving with uniform acceleration attains a speed of 90km/hr in 5 minutes. Find i) the acceleration and ii) the distance traveled.
6. A car is moving with a velocity 20m/s. The brakes are applied to retard it at a rate of  $2\text{m/s}^2$ . What will be the velocity after 5 s of applying the brakes?

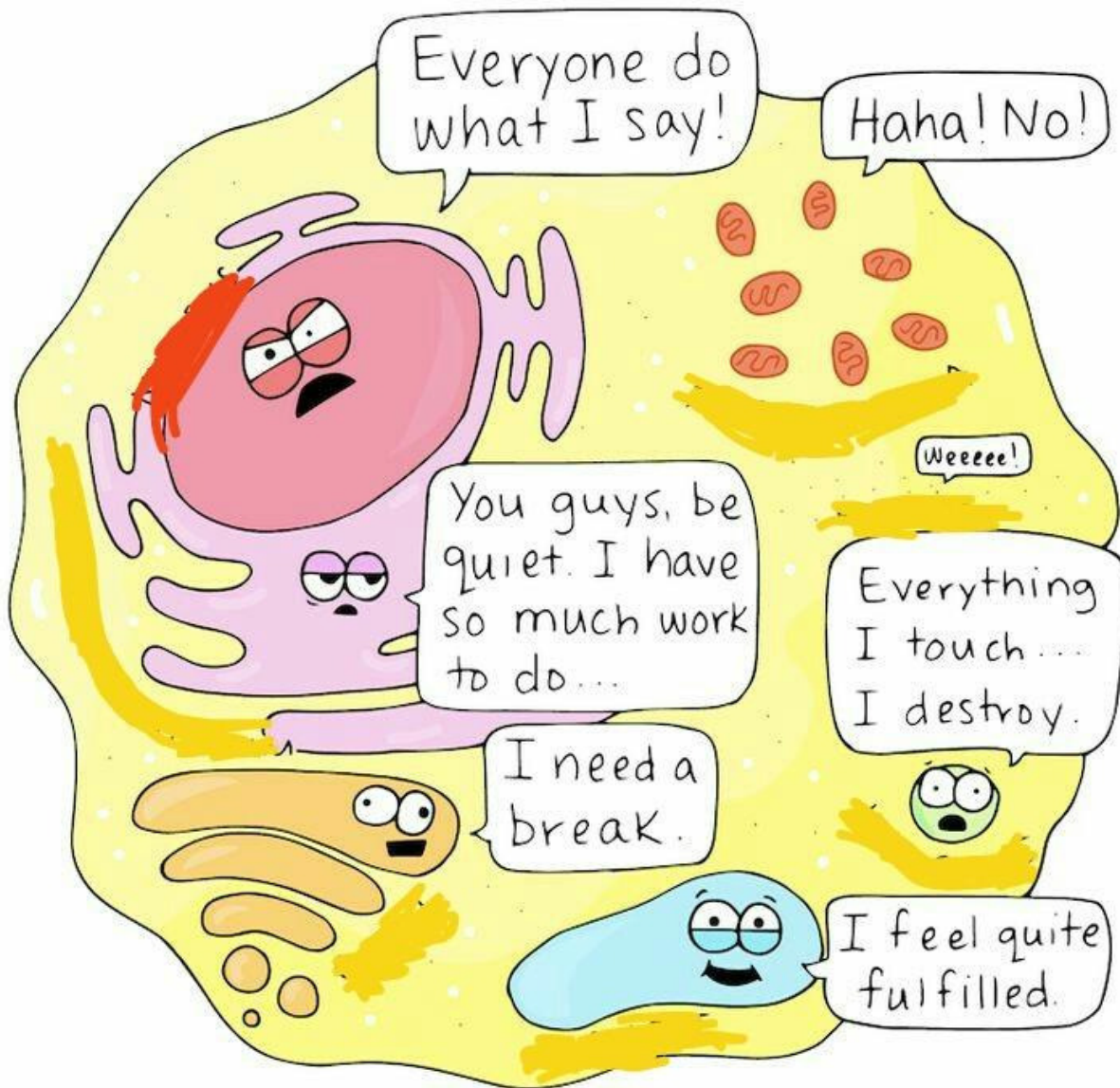
### Chemistry:

1. Write a short note on the following  
"States of matter – A boon to mankind"
2. "Elements are dangerous for human beings" write either in favour of it or against it , giving suitable examples and facts.

Biology:

1. Draw the diagram as given below 2. On the basis of the statements name the organelles.

(Note: Assignment to be done in a folder or file)



If organelles could talk.

Beatrice the Biologist

### History /Civics:

1. Why are certain social classes referred as middle class? What role did they play in French Revolution?
2. Why is the French revolution considered as turning point in modern history?
3. Suggest the steps to be taken by the king to avoid uprising in France in 1789.
4. Make a contrastive survey of life of people under enlightened monarchs like Ashoka and present day India.
5. Give four examples to illustrate that India is a functioning democracy.

### Geography:

Collect information and write about the Silk route of China.(along with maps)

### Economics:

Answer the following questions.

- A) How did spread of electricity help farmers in Palampur?
- B) Construct a table on the distribution of land among the 450 families of Palampur.
- C) Why are the wages for farm labourers in Palampur less than minimum wages?
- D) Which capital can be considered as the best : land, labour, physical capital or human capital and why?
- E) How is multiple cropping practised in Palampur? Explain.
- F) Mention any three negative effects of green revolution.
- G) What can be done so that more non farm activities can be started in rural areas?

### Sanskrit:

1. वर्णों का उच्चारण स्थान संस्कृत में लिखिए ।
2. व्यञ्जन संधि के सूत्रों को लिखकर उसकी व्याख्या हिन्दी भाषा में करें !
3. -शब्द रूप लिखें .....मुनि ,पति सखि, अस्मद्, युस्मद् ,तत् तीनों लिंगों में ,एतत् तीनों लिंगों में।
4. धातु रूप पाँच लकारों में लिखें .....पठ् , भू , अस् , स्था , पा ,दृश् , गम् , सेव , लभ् , ।