

# H. S. DAV PUBLIC SCHOOL

## NARKATIAGANJ, WEST CHAMPARAN

Home assignment for summer vacation 2021

Class: IX

Subject: Science (Biology)

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### **Prepare your fair copy and answer the following questions from chapter 5- FUNDAMENTAL UNIT OF LIFE: CELL**

1. How do substances like carbon dioxide and water move in and out from the cell?
2. Why are lysosomes known as suicide bags?
3. How is a prokaryotic cell different from a eukaryotic cell?
4. What are the constituents of plasma membrane?
5. Name the cell organelles/ structures which are commonly called:
  - (a) Kitchen of the cell
  - (b) Power house of cell
  - (c) Skeleton of the cell
  - (d) Suicidal bags of the cell
  - (e) Digestive bags of the cell
  - (f) Heredity vehicles
  - (g) Master molecule of the cell
  - (h) Packaging and dispatching unit of cell
  - (i) Storage bags of the cell
6. Name the cell organelles which contains DNA.
7. How amoeba take its food?
8. What happens:
  - (a) If plant cell is kept in hypertonic solution.
  - (b) Dry apricot first kept in water and then transfer to sugar solution.
  - (c) RBC kept in water.
9. Why is the plasma membrane called a selectively permeable membrane?
11. A person takes concentrated solution of salt, after some time, he starts vomiting. What is the phenomenon responsible for such situation?
12. Name any cell organelle which is non-membranous.
13. Why does the skin of your finger shrink when you wash clothes for a long time?
14. If you provided with some vegetables to cook, you generally add salt during cooking process. After adding salt, vegetables release water. What mechanism is responsible for this?
15. Draw a neat label diagram of plant cell and animal cell.
16. Differentiate animal cell and plant cell.

H.S DAV PUBLIC SCHOOL NARKATIAGANJ, WEST CHAMPARAN

Assignment for summer  
vacation(2021-22)

Sub:Maths;Class :9

To complete fair of chapters Number Systems, Polynomials and Co-ordinate Geometry.

PROJECT WORK:

(1) Construct a square root spiral

(2) Represent irrational number root 2 and root 5 on the number line.

(3) Verify the identity.

$$(1)(a+b+c)^2=a^2+ b^2+c^2+2ab+2bc+2ca$$

$$(2) a^3+b^3+c^3-3abc= (a+b+c)(a^2+b^2+c^2-ab-bc-ca)$$

Summer vacation H. W.

Sub\_S.St Std\_IX

#Home Assignment\_Revise all taught ch, Update your fair copy accordingly.

# Analysis merits and demerits of democracy

#Assess hypothetical village Palampore including all important information related to it.

Project Work\_Make a project showing role of Philosophers in French Revolution, paste their pictures too. (According to prescribed NCERT Book)

#Make a project decoratively showing different physical features of India.

Assignment of English-

Prepare ur fair copy of all taught chapters.

Project- Make a picture of ur Dream School ( With all important details which you need in your dream school.)

वगय – नवम

गृहकाययम्- धातुरूप- सेव , िभ्, रुच, वन्द् आत्मनेपदी धातुरूपाणि िखन पुब्स्तकायाम्लिखन्तु।

पररयोजना काययम्- स्वर सन्यान्तगयत्प्रत्येक सब्धनाम्पंच पंच उदाहरिनन स्फोरक(chart paper)पि लिखन्तु।

Summer vacation 2021 Home Assignment

Sub: Physics

Revise all taught chapters

(Motion, Force and Laws of motion).

Make notes with question answers of exercises of the taught chapters.

#Make a project on

(a) Force implementation.

(b)Balance and unbalance force.

Chemistry assignment work - Make intext and exercise questions of chapter 1 and 2.

Biology- Do fair of taught chapters (Physical basis of life and tissue).

## Assignment for Computer

### Assignment

1. Make notes of unit

1 to 3.

2. Remember unit

1 to 3

### Project

1. Make a model of Computer system and explain the work processing