

DAV PUBLIC SCHOOL

SRESHTHA VIHAR, DELHI

HOLIDAYS HOMEWORK

CLASS-IX

ENGLISH

1. SHORT STORY WRITING

Write a story in about 150-200 words with the following beginning and give a suitable title to it.

When Amit woke up in the morning and looked at his face in the mirror, he did not recognise the face looking back at him. “This is not me he cried aloud...”

2. DIARY ENTRY

Write a diary entry describing the horrible experience that you had when your shoes and the main bag were stolen during a railway journey.

3. DESCRIPTIVE WRITING

You were absent the other day when a new student joined your class. Your friend Ashok gives a factual description of the new classmate. Using the given hints, describe your new classmate in about 120 words.

Raghav-based Delhi-joined school yesterday-well-built-tall-muscular-looks like a football champion-was asked to address the assembly-held the audience spellbound-interesting-friendly.

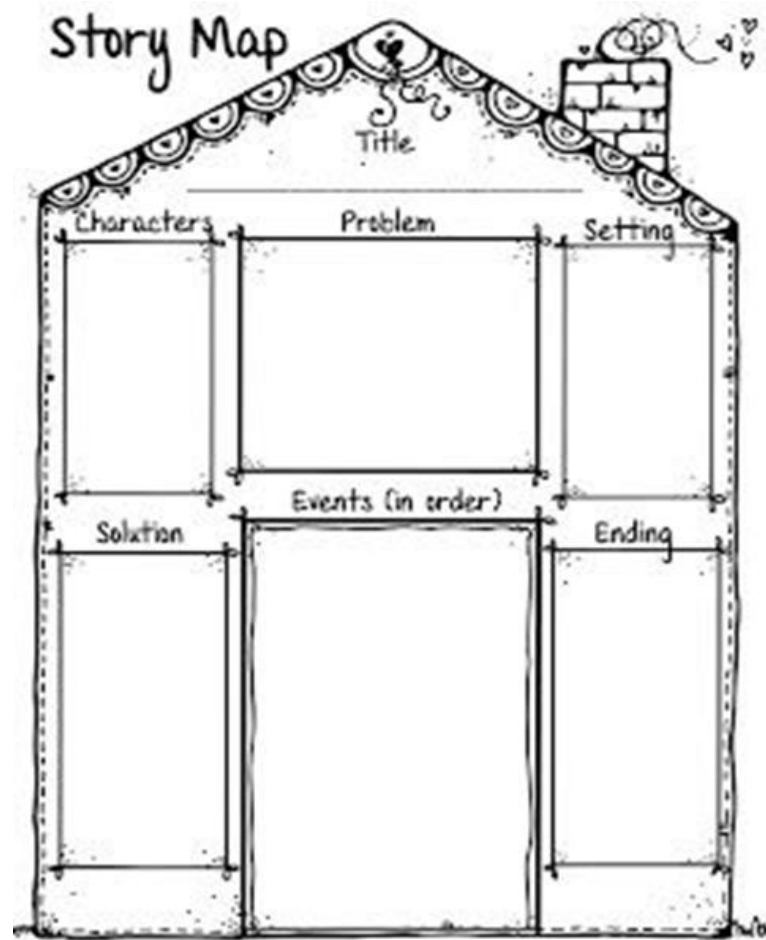
4. WORD BUILDING-PUZZLE MAKING

Based on the new stories/poems/articles that you read over the next few weeks of your summer break, design a word puzzle, comprising a minimum of 15 words. It can be a crossword, a Jumbled word game, rebus or a word search. The game must provide interesting clues/instruction to the readers to help them figure out the correct answer.

The following websites can be used while designing the word games.

- <https://crosswordlabs.com/>
- <https://thewordsearch.com/maker/>
- http://rebus1.com/en/index.php?item=rebus_generator

5. Read the chapter 'The Sound of Music' and write about the lives of Evelyn Glennie and Ustad Bismillah Khan in the following manner.



6. Interview your parents / grandparents to find out about the things/activities they used to do when they were of your age. Tabulate the activities which no longer exist.

Like Leisure time activities, Games, Customs practised etc. (Minimum 10 activities)

Make it interesting. Your interview must have a lot of details for the reader to understand the yesteryears clearly. Have fun!

Please Note:

ALL QUESTIONS MUST BE DONE ON A4 SIZE RULED SHEETS. The homework must be presented neatly and creatively.

MATHS

Q.1. Fill in the blanks:

- (a) The point (3,0) lies on _____.
- (b) The X-axis and Y-axis intersect at a point called the _____.
- (c) The coordinates of a point whose ordinate is -5 and which lies on the Y-axis are _____.
- (d) Bisectors of corresponding angles made on two parallel lines are _____.
- (e) The number of degrees in an angle which equals one fifth of its supplement is _____.

Q.2. Multiple choice questions:

1. An exterior angle of a triangle is 105° and its two interior opposite angles are equal. The measure of these angles is
(a) 37.5° (b) 52.5° (c) 72.5° (d) 75°
2. If one of the angle of a triangle is 130° , then angle between the bisectors of the other 2 angles can be
(a) 50° (b) 65° (c) 145° (d) 155°
3. AB and CD are two parallel lines. PQ cuts AB and CD at E and F respectively. EL is bisector of $\angle FEB$. If $\angle LEB = 35^\circ$, then $\angle CFQ$ will be
(a) 55° (b) 70° (c) 110° (d) 130°
4. The bisector of exterior angle at B and C of ΔABC meet at O. If $\angle A = x$ then $\angle BOC$ will be
(a) $90^\circ + \frac{x}{2}$ (b) $90^\circ - \frac{x}{2}$ (c) $180^\circ + \frac{x}{2}$ (d) $180^\circ - \frac{x}{2}$
5. Side BC of a triangle ABC has been produced to a point D such that $\angle ACD = 120^\circ$.
If $\angle B = \frac{1}{2} \angle A$ then $\angle A =$
(a) 80° (b) 75° (c) 60° (d) 90°

Q.3. Very short answer / Short answers

1. Prove that the bisectors of the angles of a linear pair are at right angle.
2. Prove that the angle between the bisectors of the two acute angles of a right triangle is 135°

3. Two lines are respectively perpendicular to two parallel lines. Show that they are parallel to each other.
4. Two adjacent angles are equal. Is it necessary that each of these angles will be a right angle? Justify your answer.
5. A point lies on the X-axis at a distance of 7 units from the Y-axis. What are its coordinates if it lies on Y-axis at a distance of -7 units from X-axis.
6. Find the coordinates of the point
 - (i) Which lies on X-axis and Y-axis both.
 - (ii) Whose ordinate is -4 and which lies on Y-axis.
 - (iii) Whose abscissa is 5 and lies on X-axis.
7. Graph the points P(2,0) L(1,1) A(-1,1) N(-2,0) E(-1,-1) T(1,-1) and draw the hexagon PLANET.
8. A point P is on the positive direction of X-axis and is 4 units from the origin. State its abscissa and ordinate.
9. Show that the points (-1,2) (2,-1) and (4,-3) are collinear using graph.
10. If l,m,n are three lines such that $l \parallel m$ and $n \perp l$, prove that $n \perp m$.

PROJECT

MAKE A MODEL / PROJECT ON ANY TOPIC FROM YOUR PREVIOUS CLASS.

SCIENCE

BIOLOGY (THE FUNDAMENTAL UNIT OF LIFE)

Do the assignment in Biology homework copy

- 1 Name the cell organelles which are semiautonomous.
- 2 Why are Viruses an exception to the cell theory?
- 3 Mitochondria is absent in prokaryotic cell. Where are respiratory enzymes located in these cells?
- 4 Where do lipids and proteins constituting the cell membrane get synthesized?
- 5 Which organelle in animal cell is associated with spindle formation during Cell division?

- 6 Why are Lysosomes known as suicidal bags?
- 7 Which structure of plant cell provides rigidity to the cell?
- 8 Why does the skin of your finger shrink, when you wash clothes for a long time?
- 9 Name the cell organelles which are bounded by double membranes.
- 10 Why are tomato red while leaves green in colour?
- 11 Which cell organelle is called the “Kitchen of the cell”? Justify your answer giving reasons.
- 12 How does amoeba obtain and digest its food?
- 13 How do substances like carbon dioxide and water move in and out of the cell?
- 14 A person takes concentrated solution of salt. After some time he starts vomiting. Which phenomenon is responsible for such situation? Explain giving reasons.
- 15 Draw neat labeled diagram of Plant cell and Animal cell.

CHEMISTRY

Note: Following assignment is to be done on ruled A-4 size sheets.

- 1 Define 1) latent heat of fusion 2) latent heat of vaporisation
- 2 Arrange the following substances in increasing order of force of attraction between the particles-oxygen,salt,milk
- 3 Explain how some gases like CNG,PNG,LPG can be filled in cylinders
- 4 Why gases can be compressed but not liquids?
- 5 A rubber band can change its shape then also it is called solid. Explain.
- 6 Why sponge is considered solid although it can be squeezed.
- 7 Justify the statement- ice, water and steam are three states of same substance and are not different substances.
- 8 Arrange three states of matter in ascending order of rate of diffusion
- 9 Why can we smell gas leakage sitting several meters away?
- 10 Wax is heated in a China dish. How will the kinetic energy of the particles change as time progresses.

PHYSICS (CHAPTER- MOTION)

- 1) Give two uses of graphical representation of motion.
- 2) What is meant by uniform circular motion? Why do we need a force to keep a body moving uniformly along a circular path? Name this force.
- 3) Derive 1st, 2nd and 3rd equation of motion graphically.
- 4) Navneet travels along a straight road 500m long and returns back 100m. Find his average speed and average velocity if he takes a time of half an hour.
- 5) (V-T) graph for the motion of an object in straight path is a straight line parallel to time axis.
 - (a) Identify the nature of motion of body.
 - (b) Find the acceleration of a body.
 - (c) Draw the shape of (S-T) graph for this type of motion.
- 6) How will equation of motion for an object with uniform velocity change?
- 7) Draw a (S-T) graph of a stone thrown vertically upwards and then coming downwards after attaining maximum height.
- 8) Find a numerical ratio of average speed to average velocity of an object moving in straight line path.
- 9) Can uniform linear motion be accelerated? Justify your answer.
- 10) A body is moving with uniform speed. Represent its motion graphically on:-
 - (a) (S-T) graph.
 - (b) (V-T) graph.

PROJECT WORK

It is undesirable that in this era of technology when things related to your academics and interest are available, learning has become fast and easy for you. To tap your knowledge, you are required to prepare a science model (preferably working and with low cost recyclable) or an activity on any of the topics listed below. Shortlisted projects will be showcased in the science exhibition to be held in school.

For roll nos 1-17

- Motion
- Force and Laws of motion
- Gravitation

- Thrust and Pressure
- Sound -musical instruments ,activities etc
- Toys and Games showcasing concept of energy ,power

For roll nos-18-35

- Chemistry involved in handling air pollution,water pollution
- Chemistry involved in techniques used to solve water scarcity
- Chemistry in everyday life
- Chemistry behind medicines
- Chemicals used in beauty products
- Diffusion,valency of atoms, electronic configuration of atoms
- Formation of ionic and covalent compounds
- Carbon compounds
- Hard and soft water

For roll nos-36 onward

- Agriculture and Organic Farming(Innovative ideas and new techniques that can be introduced to improve farming)
- Myths and misconceptions
- Allergic reactions in humans(Drug allergy, food allergy, contact dermatitis, pollen grain allergy and their remedies)
- Health and Nutrition(Models and activities showing adulteration tests in food items, effects of adulterants on human body))
- Cell biology in human welfare(providing improved management of genetic disorders and therapeutic remedies like stem cell therapy)
- Microbes as friends

Prepare 5 Quiz questions on the following chapters:

- The Fundamental unit of life –The Cell
- Matter in our surrounding
- Motion, force and laws of motion.

SOCIAL SCIENCE

GEOGRAPHY--DISASTER MANAGEMENT

Prepare a project on disaster management as the following guidelines-

1 Highlight the following:

- Definition of disaster
- What is disaster management?
- What are the types of disasters?
- Differentiate between hazard and disaster
- Give examples of various types of disasters

2 Select any one of the following for your disaster management project-

- a) Earthquake
- b) Cyclone
- c) Flood
- d) Drought
- e) Landslides
- f) any man-made disaster

3 Disaster management project should include the following points:

- Index
- Acknowledgement
- Meaning
- Causes
- Do's and don'ts
- Prevention and mitigation measures
- Your emergency kit
- Latest means of forecasting disasters

Prepare a case study on any one of the disasters that you have chosen to research

The project should not exceed 15 pages.

Mention the list of sources/references use to complete the project.

The websites search should be of edu/.gov etc. domain.

The distribution of marks over different aspects related to project work is as follows

S. No.	aspects	marks
a	content accuracy originality and analysis	2
b	Presentation and creativity	2
c	Viva voice	1

The project should be made from eco friendly products without too much expenditure

The project should be hand handwritten by the students themselves

HISTORY/POLITICAL SCIENCE

- I. Prepare a PowerPoint presentation on any one topic from Russian Revolution (chapter of History.)

GENERAL INSTRUCTIONS For making the presentation -

- Information should be taken from the book.
- Presentation should be made in MS PowerPoint with less text and more pictures.
- PPT should be of 8 - 10 slides.
- Presentation will be assessed on the basis of originality, timely submission, content accuracy.
- PPT should be mailed to the respective history teacher.

- II. Prepare a map album of the following maps:

Political map of India indicating states and capitals.

- Physical map of India showing major physical features.
- Physical map of India showing the different soil types.
- World map showing the axis and the Allied powers.
- European map having the major European countries with their capitals.

Note: Map album should be compiled in the Class work register.

III. Read, learn and revise the chapters of the first term examination.

IV. Prepare chapter wise objective type Questions of the chapters mentioned below:

- History- Russian Revolution,
- Political science- constitutional design
- Economics- people as resource
- Geography- Physical features of India

Note:

1. Questionnaire should be made in the class work registers of the respective subjects.
2. There should be minimum 10 questions from each chapter.

ECONOMICS

- Differentiate between Economic and Non-Economic Activities around you through pictorial representation in your H.W notebooks.
- Read and prepare MCQ's, one-mark questions for the following chapters in your H.W notebooks
- CH-1 Story of village Palampur
- CH-2 People as Resource

हिंदी

1 हिमांशु जोशी पर आधारित परियोजना कार्य निम्नलिखित आधार बिन्दुओं के अनुसार कीजिए

- जीवन परिचय
- साहित्यिक योगदान
- साहित्यिक विशेषता
- आपने उनके जीवन से क्या सीखा ?

2 'फिल्म अतिथि देवो भवः' देखकर मेहमान और मेज़बान की मनःस्थिति को समझते हुए अपने विचार लिखिए।

3 'मनोरंजन के तकनीकी साधन' विषय पर प्रभावशाली विज्ञापन तैयार कीजिए।

- सभी कार्य सफेद रंग की ए-4 साइज़ की शीट पर करें व प्रथम सप्ताहांत जुलाई, 2019 को जमा करें।

संस्कृत

1. **संख्या** 1से 4 तक चित्रसहित तीनों लिंगों में
5 से 100 तक पुल्लिंग में ।
2. **चित्रवर्णन** स्वयं 5 चित्र बनाकर या लगाकर प्रत्येक चित्र से सम्बन्धित संस्कृत में
दस वाक्य लिखिए ।
- 3 पाठ 1 , 2, 4 से कठिन शब्दार्थ लिखिए ।
- 4 उपपद विभक्ति याद कीजिए ।

FRENCH

- Make a French advertisement on A4 sheet and ask a riddle at the back of it.
- Do revision of all the chapters that have been done in the class.
- Do written expressions of chapter 1-4 from entre jeune