



DELHI NATIONAL PUBLIC SCHOOL.
(2024-25)

SUMMER HOLIDAY HOMEWORK



Name

CLASS

Delhi National Public School



It's summertime when faces light up with a grin

As holidays are about to begin

It's time for the children to play and enjoy

Free, unbound, high-spirited but safe at home

Dear Parents,

The academic session 2024-25 has begun in full swing and students have well settled in their classes. It is vital to enable our learners to foster an outlook that helps them explore, discover, and rediscover. Summer vacation is the best and fruitful time for learning and nurturing creativity. Amidst all the fun and frolic, let's twirl our fingers and mind for a bit of homework. A variety of fun-filled activities are given to be attempted during summer break. Use your energy and give a vent to your creativity. It will surely enhance your learning process.

General Instructions:

1. Homework will be done on A4/A3 size sheets as instructed. All sheets to be filed in a beautifully decorated handmade folder, with your name and class clearly written at the top.
2. Originality of work will be appreciated.
3. Homework will be assessed on the basis of neatness, creativity, and originality of ideas.



CLASS – XI

ENGLISH

Prepare a project work. It must be done individually. There will be one project file on any one of the topics given below: Topics:

- a. Co-education – a boon or a bane : Discussing the positive and negative effects of Co-Education on young people's lives.
- b. Road Rage : : Raising awareness about this problem and ways to cope with this problem.
- c. Impact of Social media on youth: Discussing the positive and negative effects of social media on young people's lives.
- d. Brand crazy youth : Discussing the effects of brand craziness on young people's lives.
- e. Animal Rights : Raising awareness about animal rights and ways to protect animals from cruelty.
- f. War : A situation or a period of fighting between countries or a group of people?

Following points to be considered:

- i. Students can choose any one topic of their choice and do any one activity based on the topic. Activities are:
 - a. Interview b. One act play c. Audio/video presentation d. listen to Podcasts /Documentaries.
- ii. Project to be divided into four phases: plan, research, create & present.
- iii. What to include in the project:
 - a. Cover page b. Table of contents c. A declaration by the student. d. Certificate of completion e. Statement of purpose/objectives f. Materials used (evidence of process and progress)
 - m. Students' reflection sheet what worked well, areas that
 - g. Methodology for the project. h. Description and analysis of the data/information.
 - i. Conclusions j. Photographs k. Limitations of theresearch/project work. l. Recommendations need improvement, my actionplan for improvement) n. Bibliography/ reference

HISTORY

Prepare a Project any one topics of the following topics.

- 1. Contribution of Roman civilization.
- 2. Indus valley civilization
- 3. Greek philosophy and city States
- 4. Ancient history in depth- Mesopotamia

Checklist for the Project work

- 1. topic/ title.
- 2. Identifying the causes, events, consequences and/ or remedies
- 3. Various mistake holder side effects on each of them
- 4. Advantage and disadvantage of situation or issue identified
- 5. Short term and long term implications of strategies suggested during research
- 6. Validity, reliability, appropriateness, and relevance of data use for research work and for presentation in the project file.
- 7. Presentation and writing that is succinct and coherent in project file.
- 8. Citation of the materials referred to, in the file in footnotes, resources section bibliography etc.

हिंदी

१. हिंदी पाठ्यक्रम में से किसी एक लेखक का जीवन परिचय, साहित्यिक परिचय पर परियोजना कार्य करें।

२. लोकसभा चुनाव 2024 विश्व कप परियोजना का तैयार करें।

निर्देश:-

१. परियोजना कार्य के लिए गते वाली फाइल का प्रयोग करें।

२. परियोजना कार्य के लिए रंगीन ए- ४ सीट का प्रयोग करें।

३. परियोजना कर में चित्र का प्रयोग करें।

४. हिंदी में दोनों विषय पर परियोजना कार्य करना है।

SCIENCE

Biology

Q1. Define the following terms: a. Nomenclature. B. Identification c. Systematics d. Classification e. Biodiversity

Q2. Give reason for the followings :

A. Growth & Reproduction cannot be the defining property of the living organisms.

B. Organisms belonging to same 'class' will have more features in common in comparison to organisms belonging to same order but two different classes. C. Museum cannot be the taxonomical aid to study the habitat of the organism.

D. Two kingdom classification was replaced by the five kingdom classification.

E. Archaea bacteria are able to survive in extreme environmental conditions like hot sulphur springs.

Q3. Differentiate between the followings:

A. Photosynthetic autotrophs and chemo synthetic autotrophs.

B. Manuals & Monographs c. Herbarium & Botanical garden d. Spirilla & Cocci e. Protista & Mollusca
In A4 sheet

Q4. What is meant by 'Binomial nomenclature'? Write the universal rules of nomenclature in A4 sheet

Q5. Write the taxonomical categories in hierarchical order for the following organisms:

a. Man

b. Mango

Q6. State how the organisms are kept in 'Museum' as taxonomical aids in A4 sheet . Make the taxonomical key for 'Mammals' 'Echinoderms' Q7. Draw the labelled diagram of a blue green algae 'Nostoc'. In A4 sheet ...

NOTES – complete lab manual....

CHEMISTRY

Assignment

Some basic concepts in Chemistry Q1. What is meant by one gram atom of silver?

Q2. Which of these solutions have same molar concentration?

A) 49g H₂SO₄ per litre of solution

b) 49g H₃PO₄ per litre of solution

c) 73g HCl per litre of solution

d) 63g HNO₃ per litre of solution

Q3. Write down the empirical formula of acetic acid (CH₃COOH)

Q4. How many moles of methane are required to produce 22g CO₂ after combustion?

Q5. A solution is prepared by adding 2g of a substance A to 18g of water. Calculate the mass percentage of the solute.

Q6. Calculate the mass of Sodium acetate (CH_3COONa) required to make 500ml of 0.375 M solution. Given that the molar mass of sodium acetate is 82.

Q7. Which of the following has a larger number of atoms: 1 gm. Of K or 1 gm. Of Cl_2

Q8. Calcium carbonate reacts with aqueous HCl to give CaCl_2 and CO_2 according to the reaction, $\text{CaCO}_3(\text{s}) + 2\text{HCl}(\text{aq}) \rightarrow \text{CaCl}_2(\text{aq}) + \text{CO}_2(\text{g}) + \text{H}_2\text{O}(\text{l})$ What mass CaCO_3 is required to react completely with 25 ml of 0.75 M HCl ?

Q9. The empirical formula and molecular mass of a compound are CH_2O and 180 g respectively. What will be the molecular formula of the compound? A) $\text{C}_9\text{H}_{18}\text{O}_9$ b) CH_2O c) $\text{C}_6\text{H}_{12}\text{O}_6$ d) $\text{C}_2\text{H}_4\text{O}_2$

Q10. The reactant which is entirely consumed in reaction is known as limiting reagent.

In reaction $2\text{A} + 4\text{B} \rightarrow 3\text{C} + 4\text{D}$, when 5 moles of A react with 6 moles of B, then: a) Which is the limiting reagent? B) Calculate the amount of C formed.

Assignment B)

Structure of atom

Q1 Calculate the total number of electrons present in one mole of methane.

Q2 What is the number of photons of light with a wavelength of 4000pm that provide 1J of energy?

Q3 Define the following terms: I. II. Black body radiation Photo electric effect III. IV. Threshold frequency Work function IN A4 sheet.

NOTES - Complete lab manual...

MATHEMATICS

READ THESE INSTRUCTIONS FIRST

1. Answer all questions given you in your assignment.
2. You may submit the homework in a separate notebook with an attractive cover.
3. Use class math notebook for doing holiday homework.
4. Write your name, class and section on the cover page.

Assignment

Assignment-SETS <https://acrobat.adobe.com/id/urn:aaid:sc:AP:b078f6d2-5899-450e-a09f-c98aade1fc5a>