

THE ASIAN SCHOOL, DEHRADUN
HOLIDAY HOMEWORK OF WINTER VACATION 2018 FOR CLASS IX

English:

1. Read the lessons 'The Bond of Love' (Beehive) and 'The Accidental Tourist' (Moments) and pick out 15 new words from each lesson and write their meanings.
 2. Write an article in 100-150 words for your school magazine on the topic "Love is a Universal Language Understood Even by Animals".
- Note : English home work to be done in the English Homework note book.**

Hindi: 1. निम्नलिखित विषयों पर लगभग 300 शब्दों में निबन्ध लिखिए –

- क) बेटी बचाओ, बेटी पढ़ाओ
 - ख) देशाटन के दृष्टिकोण से उत्तराखण्ड
2. पत्र-लेखन
- क) अपने नगर विकास प्राधिकरण के सचिव को अपनी कॉलोनी के पार्क के विकास के लिए पत्र लिखें।
 - ख) स्वास्थ्य की ओर ध्यान देते हुए तथा खेलों में भाग लेने के लिए प्रेरित करते हुए छात्रावास में रहने वाली अपनी बहन को पत्र लिखें।
3. व्याकरण –
- क) यमक अलंकार की परिभाषा तथा कोई तीन उदाहरण दीजिए।
 - ख) उपमा अलंकार को समझाते हुए दो उदाहरण दीजिए।
 - ग) उत्प्रेक्षा अलंकार की परिभाषा तथा दो उदाहरण दीजिए।
 - घ) मानवीकरण अलंकार की परिभाषा और दो उदाहरण दीजिए।
 - ङ) रूपक अलंकार और उपमा अलंकार में क्या भिन्नता है उदाहरण सहित समझाइए।
4. संवाद लेखन – निम्नलिखित विषयों पर संवाद लेखन लिखिए।
- क) पन्द्रह वर्ष बाद दो मित्र आपस में मिले एक अध्यापक थे और दूसरा डॉक्टर। दोनों के बीच में हुए संवाद को अपने शब्दों में लिखिए।
 - ख) किसी वस्तु को लेकर बहन-भाई के बीच होने वाला झगड़ा और झगड़े के निपटारे के संबंध में संवाद लेखन लिखिए।
- नोट- दिया गया समस्त कार्य हिन्दी गृहकार्य पुस्तिका में करना है।

Mathematics :

ACTIVITY WORK:

Perform an activity on various historical aspects of "PROBABILITY".

The activity should have the following descriptions:

- Origin of the concept of PROBABILITY.
- Classical definition of PROBABILITY.
- Types of PROBABILITY.
- Theoretical approach to PROBABILITY.
- Experimental approach to PROBABILITY.
- Famous mathematical problems featuring PROBABILITY.
- General rules in PROBABILITY.

Reference: Students should use all available resources (NCERT BOOKS, INTERNET etc.)

Instructions:

1. The activity should be hand written.
2. The activity should be done in a stick file.
3. The activity should contain acknowledgement.
4. The activity should be of at least ten pages.
5. It should have pictures and other relevant material.

Note : Holiday Homework to be done in the Maths Homework notebook.

Physics: * Prepare a project report on law of conservation of energy, conservation of energy during the free fall of a body and in a simple pendulum.

Topic to be covered : i) Energy and moment of conservation in simple pendulum (Full explanation)

ii) Conservation of momentum in rocket launching.

iii) Energy of a particle in free fall at different position of particle and explain conservation in free fall.

(Attempt Numerical at least two from each sub topic)

Instructions:

- The project report should be handwritten in A-4 size sheets.
- It should be of minimum 15 pages excluding Acknowledgement, Index and Bibliography.
- The project report should be presented in the following order: (a) Cover page showing title page of the project, student information, name of school and academic session. (b) Acknowledgement (c) Index (d) Chapters with relevant headings (e) Summary and conclusion based on findings (f) Bibliography.
- All photographs and sketches should be labelled and acknowledged.
- Numerical to be done in Physics Homework Note book.

Chemistry: Make a project on "**Chemistry of Newly Discovered Element**" emphasizing the following points:

- | | | |
|---|-----------------------------------|---------------------------|
| a) Structure | b) Chemical Names and IUPAC names | c) Uses of these elements |
| d) Sources and properties of the elements | e) Name and discoverer | |

Above project also include the following numerical based on mole concepts, atomic number and mass number :

Q1. If 1 gm of sulphur dioxide and molecules. How many molecules will be present in 1 gm of oxygen?

Q2. The mass of one molecule of a substance is 4.65×10^{-23} g. What is its molecular mass?

Q3. What mass of nitrogen, N_2 , will contain the same number of molecules as 1.8g of water H_2O ?

Q4. From A,B,C,D which weights the least

- A 2 gm atoms of Nitrogen.
- B 1 mole of silver
- C 6.02×10^{23} atoms of carbon
- D 1.4 gm of C_2H_2 (Ethylene)

Q5. Calculate the moles of sodium hydroxide contained in 160 gm of it.

Q6. The composition of two atomic particles is given below :

	X	Y
Protons :	8	8
Neutrons :	8	9
Electrons :	8	8

- (i) What is the mass number of 'X'?
- (ii) What is the mass number of 'Y'?
- (iii) What is the relation between 'X' and 'Y'?
- (iv) Which element/ elements do they represent?

Q7. The atomic species A and B have difference number of protons but the same number of nucleons. On the other hand species X and Y have the same number of protons but different number of nucleons. Which pair is an example of isobars? Why?

Q8. Calculate the mass of : a) 10^{22} atoms of sulphur b) 0.1mole of CO_2

Q9. Give that the percentage abundance of the isotope $^{20}Ne_{10}$ is 90% and that of the isotope $^{22}Ne_{10}$ is 10%. Calculate the atomic mass of Neon.

Q10. Composition of nuclei of two atomic species A and B is given as under :

	A	B
Protons	18	20
Neutron	22	20

Give the mass number of A and B. What is the relation between two species and which element/ elements they represent.

Instructions : * There should be no errors in writing symbols and representation of elements.

* The project should be done in chemistry home work note book.

* It will be assessed on the basis of : a) Presentation b) Neatness of the content c) Diagrams & Pictures related to newly discovered elements

Biology: Make a investigatory project report on 'Improvement in Food Resources' emphasizing the following points :

- (i) Need for improvement of food resources.
- (ii) Strategies planned for improvement in crop production like :
 - a) Crop Variety Improvement
 - b) Crop Production Management
 - c) Crop Protection Management
- (iii) Techniques to develop High Yielding Varieties (HYV's) of Plants
- (iv) Advantages and Disadvantages of using fertilizers and pesticides in agriculture.
- (v) Comparison between use of fertilizers and manures and their effect on ecosystem.
- (vi) Protection of crops against weeds and insect pests.
- (vii) Some common plant diseases and their symptoms caused by pathogens like – Bacteria, Fungi and Viruses.
- (viii) Description of any one plant disease.

Instructions:

- The project report should be handwritten in A-4 size sheets.
- The project report should be presented in the following order -
 - (a) Cover page showing title page of the project, student information, name of school and academic session.
 - (b) Acknowledgement
 - (c) Chapters with relevant headings
 - (d) Summary and conclusion based on findings
 - (e) Bibliography.
- Credit will be awarded to the original drawings, pictures, illustrations and creative use of materials.
- All photographs and sketches should be labelled and acknowledged.

SOCIAL STUDIES :

General Instructions : * Answer the following questions in 80-100 words.

* Work to be done in the respective subjects homework notebooks.

* No project files are required.

History:

- Q1. Describe the circumstances leading to the outbreak of revolutionary protest in France.
- Q2. Explain the role of Lenin in Russian Revolution.
- Q3. "Forests are our National wealth". Illustrate your answer with suitable example.
- Q4. Describe the main features of the Preamble of the Indian Constitution.
- Q5. Describe the significance of the Election Commission in organizing free and fair elections in India.
- Q6. What are the different measures taken to ensure free and fair election in India?

Geography :

- Q1. What is the Latitudinal extent of India? What are its implications?
Q2. Describe how the Himalayas were formed?
Q3. Give a brief account of the different Peninsular rivers.
Q4. Give an account of the weather and characteristics of the cold weather season.
Q5. Describe the different measures that have been taken by the government to conserve our wildlife and varied fauna.

Economics:

- Q1. Mention any four non-farm production activities of village Palampur. Which activity do you feel most useful for the villages? Give any two reasons.
Q2. Why is educated unemployment a peculiar problem of India?
Q3. Analyse the role of education in the formation of human capital.
Q4. What are the objectives of India's National Health policy? Suggest two ways in which the policy of the objectives can be met.
Q5. "Increase in unemployment is an indicator of depressed economy." Do you agree with this statement? Support your answer by giving arguments.

Computer:

- Q1: What is Email? What are its components? Explain each component briefly.
Q2: Explain different views of Presentation.
Q3: Define "Format Cells" option in MS EXCEL. Define it for Text and Number.
Q4: What do you understand by Alignment and indent of text, Explain the steps to set both in word process MS WORD.
Q5: Differentiate between :

- a) Spell Check and Grammar Check b) Worksheet and Work Book c) Folder and File

Q6: EMPLOYEE DATA

EMP ID	EMP NAME	BASIC	DA	HRA	TOTAL
E101	ANITA	10000			
E102	RAM	12000			
E103	GITA	14000			
E104	SHYAM	19000			

- a) Calculate DA as 20% of Basic and HRA as 30% of Basic.
b) Calculate total as Basic +DA+HRA (Apply formula / function both).

- Q7 : How many rows and columns are there in single sheet of excel.
Q8: Define the term range in context of MS EXCEL.
Q9. What are functions in MS – EXCEL describe any five functions?
Q10. Explain Animation tab feature of MS – Power Point.
Q11. What are Viruses? How can we protect the computer & Network from viruses.

- Note:** (i) Write the answers in 50 – 60 words.
(ii) H.W. needs to be done in Computer H.W.

French :

- Write the conjugation of all verbs given in the book, write numbers from 1 to 100 in French.
- Make a separate thin notebook for writing conjugations and numbers. Also learn all the tenses that we have done in class .


Principal


Vice-Principal