





SUMMER VACATION HOLIDAY H.W.

CLASS – IX

“When learning is purposeful, creativity blossoms. When creativity blossoms, thinking emanates. When thinking emanates, knowledge is fully lit.” - Dr. Abdul Kalam

Summer vacation is the time when you can be more candid and creative. The Holiday assignments are focused to let the creative and latent talents, skills and desires of the children come to the surface in a joyful and experiential manner.

REMEMBER

- ❖ Neatness and hygiene are part of your routine.
- ❖ Holidays homework is a part of subject enrichment and will be assessed on the basis of
- ❖ creativity and efforts of the students.
- ❖ It's a perfect time to enhance your speaking skills and vocabulary by conversing in English
- ❖ with your family and siblings.
- ❖ Reading is essential for those who seek to rise above the ordinary. Spend your quality time with reading purposeful books
- ❖ A beautiful handwriting makes a good impression.
- ❖ Schedule your time for activities so that there is no piling up for the last moment.
- ❖ Holiday Homework Should Be Your Authentic Creative Work.

So dear children, Get... Set... Go... Enjoy doing the activities and ensure timely completion of the given assignments.

ENGLISH

➤ Revise all the lessons that have been taught so far.

1. Take a print of the given picture and describe it in your own words on an A4 sheet. **(Roll No. – 1 to 8)**



2. Make a poster showing the life /achievements of Dr. APJ Abdul Kalam on a A3 size sheet.
(Roll No. – 9 to 16)

3. Read any one of the following poems from the book 'Beehive'. Choose the stanza/line you like the most in the poem and depict it in a creative manner. (Roll No. – 17 to 24)

i. The Road Not Taken

ii. Wind

i. **How to do:** Use your imagination to convert the poem in an artistic representation on A4 sheets.

i. The presentation should be self- explanatory.

ii. Being innovative with values and feelings.

What to do:

Create your own diary and write about any one positive change that you will bring in yourself like being punctual or being organized, on a daily basis. (Not more than 50 words each day).

Where to do: A small handmade diary which should be properly decorated.

Parameters: Accuracy, Content, Authenticity, Creativity

4. Make a comic strip of the lesson- Adventures of Toto on a A4 Size sheet. (Roll No. – 25 to 32)

HINDI:

निम्नलिखित सूचनाओं का संकलन कर अंडमान और निकोबार की संस्कृति पर हिंदी परियोजना कार्य (चित्र सहित) तैयार कीजिए।

* वेशभूषा

* खान – पान

Mathematics:

1. Revision: Review chapters 1, 2, and 3 from the NCERT textbook, assignment and NCERT Exemplar.
2. Working Models: Create working models for the following topics, based on your roll number:
 - Roll no. 1 & 17* - Congruency of triangles
 - Roll no. 2 & 18* - Surface area and volume of a cylinder
 - Roll no. 3 & 19* - Probability
 - Roll no. 4 & 20* - Polynomial algebraic identity
 - Roll no. 5 & 21* - Linear equation in one variable
 - Roll no. 6 & 22* - Quadrilateral

SCIENCE:

BIOLOGY

Make a working model as discussed in class.

Neuron <https://www.youtube.com/watch?v=6d5l27wvFnM> : Roll No.7 of 9A & Roll No.4 of 9B

Kidney <https://www.youtube.com/watch?v=hqjF3rSYvRE> : Roll No.10 of 9A & Roll No.6 of 9B

Integrated Farming Model <https://www.youtube.com/watch?v=Trtgt1hT6yA> : Roll no. 13 of 9A & Roll No.13 of 9B

Hydroponic Farming <https://www.youtube.com/watch?v=4OzyNzEAWTg>: Roll No.16 of 9A & Roll No.20 of 9B

Bio Gas Plant <https://www.youtube.com/watch?v=hqjF3rSYvRE> : Roll No. 24 of 9A & Roll No. 20 of 9B

2. Make 3d model of cell organelle / agriculture / greenhouse effect or any other related to biology.

PHYSICS AND CHEMISTRY:

- On an A3 Size sheet best colored pictures of any one Famous Physicist and briefly write about their contributions in the field of Physics.
- Prepare working model on the topics given below. Link has been shared for reference.

ROLL NO.	TOPICS	LINK
7 & 23	Projector	How to Make a Projector at Home (youtube.com)
8 & 24	Infinity Mirror	How to make an Infinity Mirror (youtube.com)
9 & 25	Smoke Detector	(3) How To Make Smoke Detector Alarm - YouTube

10 & 26	Anti- Gravity Structures	Tensegrity Structure Engineering Life Technical work (youtube.com)
11 & 27	Bird in a Cage	Parrot in the cage optical illusion #diy (youtube.com)
12 & 28	3D Model of Sublimation	https://youtu.be/TQUH4FVfhT0?si=4yDbZcKfQBMs0m4
13 & 29	Water Distillation	https://youtu.be/15G0huOnf2k?si=3zLIGSN_9IQL719V
14 & 30	<p>Create a four -panel brochure that highlights the important information about the “THREE TYPES OF SOLUTIONS”. The brochure must be colorful, neat, and contain the following required information: Take half a cartridge sheet. *The first panel should be on ‘CHEMISTRY POSTER’. *The rest three panels should include (The names of three solutions, their characteristics</p>	

SOCIAL SCIENCE:

Dear students,

Following work is assigned to specific roll numbers. Mentioned here only. Accordingly, child will see their topic, watch video for the same and pursue further.

- Models should be creative, neat and properly labelled.
- Prepare a write up related to your model to explain your work.
- Material used for making the models should be biodegradable.

Sr. no.	ROLL NO.	TOPIC	VIDEO LINK
1	15	TRASH TO TREASURE (CREATION OF TAJMAHAL WITH THE USE OF NEWS PAPER)	https://youtu.be/SgA8rwnbMmU?feature=shared
2	16 & Roll no. 9 of 9A	DIGITAL TRANSACTIONS: PROMISES AND CHALLENGES (3D MODEL)	https://youtu.be/dR53jpyMmlc?si=F6GeZLRENzCYM3cA
3	31 & Roll no. 10 of 9A	SANSAD BHAWAN: MAKING OF PARLIAMENT NEW BUILDING (3D MODEL)	https://youtu.be/_uK8_7dyoHc?si=QIAbbn-2xRyHnjx
4	32 & Roll no. 20 of 9B	DEMOCRACY (3D MODEL)	https://youtu.be/gbQII94anb8?si=4qFGVwWWMRvysMNI

5	Roll No. 5 of 9 A & Roll No.15 of 9 B	LOGTITUDE AND LATITUDE (3D MODEL	https://youtu.be/Svb-6DwHLI4?si=pwcovEk7wSGgzalz https://youtu.be/gevGXkXBx5c?si=a94FAHa14Alzf043
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IN CASE OF QUERY RELATED TO THE WORK ALLOTTED CAN CONTACT YOUR TEACHERS.

- MS. NANDINI BHARDWAJ
- MS. JASPAL KAUR

All details are given below for the same:

1. Project work (as per CBSE guidelines)
2. Revision work (History ch-1, Geo ch-1,2, Civics ch-1, Eco ch-1,2)
3. Assignments (objective type, very short answer & case based)
4. Map skills (History & Geography)

➤ **Project Work**

Guidelines: Every student must undertake one project on Disaster Management.

Choose Any one natural disaster or man-made disaster and write down the rescue measures of the topic chosen. E.g. Earthquake, Cyclones, Landslides, Hazardous material spills, Rail accidents.

Objectives:

- To create awareness in Students about different disasters, their consequences and management.
- The project work helps in enhancing the Life skills of the students.

Instructions:

The focus points of the Project are:

1. To work with any one disaster that occurred in any part of India.
2. Cover page, acknowledgement, certificate.
3. Introduction
4. Causes
5. Risk Identification/Assessment
6. Main Mitigation Strategies The project of Disaster Management- Mitigation should be Handwritten in A4 size sheets (with relevant pictures pasted to the left side of A4 size sheet)
7. The last page should have Conclusion
8. Bibliography.

Rubrics:

- i. Content accuracy and originality =2

- ii. Presentation and creativity =2
iii. Process of project completion /viva =1 Learning

Outcomes:

- The students were able to identify the various causes & phenomenon of natural disasters.
- The students were able to thoroughly understand the chemical reactions behind certain disasters.

➤ The following link is towards a pledge for disaster preparedness which everyone should participate and download the certificate. The certificate should be attached to your project while you submit your project. <https://pledge.mygov.in/disaster-preparedness/>

NOTE: 1. Assignment and map work will be provided on official group.
2. Project work need to be done in A4 size sheets (interleaf) and neatly spiral bind will be done at the time of submission. Pasting of pictures is important and mandatory for all.

ARTIFICIAL INTELLIGENCE:

1. Read Part –A (Unit -1, Unit-2, Unit -3 & Unit -4)
2. Do the Model Test Paper -1 of the page no. 383. Do this work in your A.I. book.
3. Activity (Do this work according to your roll no.):
 - **Roll No. – 1 to 5**
Draw a diagram on the topic of Computer Lab Rules (Draw the necessary pictures). Do this work on a chart paper.
 - **Roll No. – 6 to 10**
Explain the concept of Domains of A.I. with examples. (Explain through a beautiful diagram). Do this work on a chart paper.
 - **Roll.No. – 11 to 15**
Draw a diagram of a Computer System and its parts (Input & Output Devices). Do this work on A3 size sheet.
 - **Roll.No. – 16 to 20**
Draw 17 SDGs (Sustainable Development Goals) with diagrams on a chart paper.
 - **Roll.No. 21 to 25**
Write any 20 shortcut keys of Computer. Do this work on A3 size sheet.
 - **Roll.No. 26 to 32**
What is Python? How is it developed? Write a code related to Python. Do this work on a chart paper. (Use necessary pictures to explain the concept).