



RAJ GLOBAL ACADEMY
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ENLIGHTENING FUTURE MINDS



Holiday Homework



✦ **MALORANA - KHALILABAD - SANT KABIR NAGAR** ✦

SUMMER HOLIDAYS

ASSIGNMENTS

2023-24

CLASS: IX

Dear Children

Summer Break is a time for fun filled activities, visit to family, bonding with cousins and at the same time to keep learning over the weeks. So enjoy yourself and make a beginning to a fruitful and enjoyable year with these fun activities.

- Read for pleasure. Pick up any storybook and after reading it, write what you liked about it. Draw your favourite character from the book or design its cover.
- Learn to be responsible. Help mummy about the house by making your bed every day and keeping your room clean. Keep your things in proper place.
- Eat healthy and exercise daily, play or go for a walk.

GENERAL INSTRUCTIONS:

- All assignments to be done on Interleaf (one side plain) A4 sheets.
- Do your work neatly.
- Use colourful pencil colours, Sketch pens, glitter etc.
- Mention your name, class, Student_Id, Subject on the top of the sheets and staple it subject wise.
- Keep all assignments in one file folder.
- Show your creativity and drawing skills in the assignments wherever you can.

Enjoy summer vacation with your family members

ENGLISH

- A. Read the biography of Dr. A P J Abdul Kalam and write your views about what you have learnt.
- B. Write an article on the following topics.
1. India's progress since Independence.
 2. Child Labour and the actions taken for Children Right in India.
- C. Practice at least 5 passages and solve it from your grammar book.
- D. Select a favourite tourist spot in India. Design a travel brochure on the place selected containing location, mode of transportation, attractive places to visit. Give a complete guide for anyone to know about the place.

HINDI

1. बधाई और धन्यवाद विषयों पर पत्र लिखिए।
2. कंप्यूटर शिक्षा की आवश्यकता विषय पर लगभग 250 शब्दों का अनुच्छेद लिखिए।
3. बीस-बीस उपसर्ग व प्रत्यय लिखिए।
4. अर्थ के आधार पर वाक्य के कितने भेद हैं? सभी भेदों के दो-दो उदाहरण लिखिए।

MATHEMATICS

1. Find the following.
 - (a) If $a = 5 - 2\sqrt{5}$, then find a^2 .
 - (b) Find the value of $99^2 - 1^2$.
 - (c) Add $(5\sqrt{2} + 4\sqrt{3})$ and $(7\sqrt{2} - 6\sqrt{3})$.
2. Rationalize the denominators:
 - (a) $\left(\frac{5}{\sqrt{7} + \sqrt{5}}\right)$
 - (b) $\left(\frac{2}{\sqrt{5} - 1}\right)$
 - (c) $\left(\frac{3}{\sqrt{7} - 2}\right)$
3. (a) If $x + y = 12$ and $xy = 32$ find the value of $x^2 + y^2$.
(b) Expand $(5a + 3b)^3$.
4. Learn and write algebraic identities in A4 size colour paper with border.
5. Represent the number system on A-4 size colour paper with the help of a flow chart, give example also.

PHYSICS

1. Draw the flow chart of the lesson motion.
2. Write all the formulas of the lesson motion.
3. The data regarding the motion of two objects a and b are given in the following table .
 - (a) Examine them carefully and state whether the motion of the objects are uniform or non uniform.
 - (b) Draw the graph for both the objects.

Time	Distance travelled by object A in m	Distance travelled by object B in m
9:30 am	10	12
9:45 am	20	19
10:00 am	30	23
10:15 am	40	35
10:30 am	50	37
10:45 am	60	41
11:00 am	70	44

4. The times of arrival and departure of a car at three locations. (A), (B) and (C) and distance of location (B) and (C) from the location (A) are given in the following table.

Station	Distance from A (km)	Time of arrival (hours)	Time of departure (hours)
A	0	08:00	08:15
B	120	11:15	11:30
C	180	13:00	13:15



Plot and interpret the distance-time graph for the train assuming that its motion between any two stations is uniform.

5. Solve at least 20 numerical problems of the lesson from your text book.

6. Velocity of a car at regular instant of time is given in the following table.
Draw the velocity-time graph for it.

Time (s)	Velocity of the car	
	(m s ⁻¹)	(km h ⁻¹)
0	0	0
5	2.5	9
10	5.0	18
15	7.5	27
20	10.0	36
25	12.5	45
30	15.0	54

CHEMISTRY

Activity – 1 To demonstrate that liquids do not possess any definite shape but have a definite volume.

- Write all points of activity set up.
- Draw diagram of activity picture if need.
- Write your observations of this activity.

Activity – 2 To demonstrate that gases are highly compressible as compared to solid and liquids.

- Write all points of activity set up.
- Draw diagram of activity picture if need.
- Write your observations of this activity.

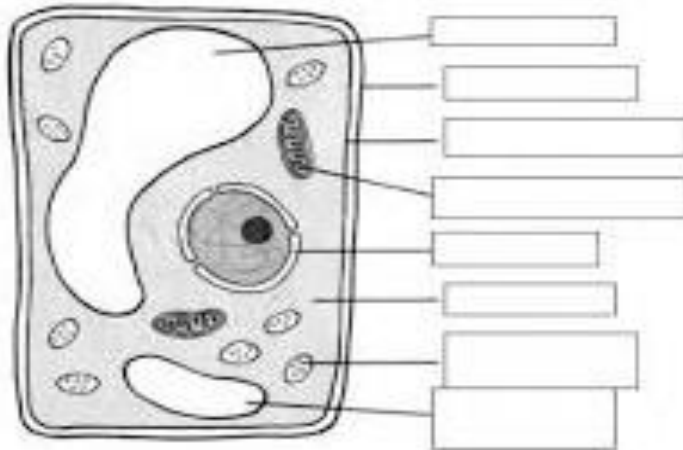
Activity – 3 Make a tabular chart for comparison of important characteristics of solids, liquids and gases.

BIOLOGY

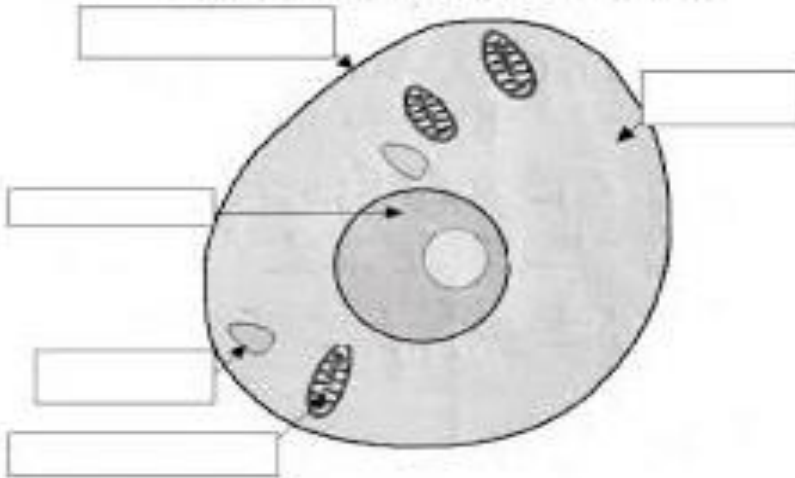
Use the words in the box to label the animal and plant cell

cell membrane cell wall nucleus cytoplasm vacuole chloroplast mitochondrion

Cross-section of a Plant Cell



Cross-Section of an Animal Cell



Directions: Answer the following questions in complete sentences where appropriate.

1. Name the basic unit and function of all living things.
2. Name the parts of a cell that is present in a plant cell but **NOT** in an animal cell.
3. Write the functions for the following parts of a cell:
 - a) nucleus
 - b) cell membrane
 - c) cell wall

2. Define the following part of the cell.

- a) Cell: _____
- b) Cell Membrane: _____
- c) Nucleus: _____
- d) Cytoplasm: _____
- e) Vacuoles: _____

3. Draw a flow chart of **'the fundamental unit of life'** on A4 sheet.

SOCIAL SCIENCE

- ✓ All the questions must be done in the most creative, accurate and innovative manner
- ✓ The activities must be done in the A4 sheet paper itself.
- ✓ Usage of pictures and graphs is compulsory for the activities

THE FOLLOWING ASSIGNMENT HAS TO BE DONE IN A FILE.

1. What was Jacobin club?
2. Name any 3 non farm activities that were performed by people in Palampur?
3. Why does India use a standard meridian? What is the standard meridian for India?
4. Elaborate the French society structure in the 18 century.
5. Why is that the northern plain the most populated and island is moderately populated?
6. Write Rise and fall of Napoleon Bonaparte make a album of Napoleon?
7. What is the latitudinal and longitudinal extent of India?
8. How did the businessmen pursue their work in Palampur?
9. Write the Merits and Demerits of Democracy?
10. What are the modern tools and techniques used by the farmers now a days make.
A list of it and write about formal and non formal source of credit?
11. Make a manuscript: Take a broad leaf. Put it under a heavy book for ten days.
On the leaf write the preamble of the Indian constitution?
12. Make a political map of India and find out following places-
 1. NTPC Korba
 2. NTPC Seepat
 3. Rourkela
 4. Bhilai
 5. Bokaro

GEOGRAPHY

1. For an example of international migration which you have studied, explain why many people made the decision to migrate. You should name the countries between which people migrated and refer both to pull and to push factors.
2. For a named country which you have studied, explain why the rate of natural population growth is high.
3. For a named country you have studied, describe how the government has attempted to influence population growth.
4. For a named country you have studied, describe the problems caused by an aging population.

CREATIVITY

Grade 9 - 3-D Artificial Design of World War I Weapon in A4 sheet paper.

Students need to design 3-d artificial weapon which was used in World War 1

This activity serves the purpose of combing their creativity and Reflection skills

COMPUTER

- A. Make a chart showing the cycle of Communication.
- B. Draw the diagram of form of Communication. And Write the verbal and nonverbal Communication.
- C. Draw the pictures of visual communication and mention their names.
- D. Make a power point on the topic of **DIGITAL INDIA** and send in PDF format