



COMPILED SUMMER HOLIDAY HOMEWORK

GRADE: VIII

SESSION: 2022-2023

SPOC: MS SUBHASREE DATTA

Date of Submission for all subjects: 20th June 2022

SUBJECT: ENGLISH LANGUAGE

Topic: As the Head of the Student Welfare in your school, make a poster to create awareness among students against bullying.

SUBJECT: ENGLISH LITERATURE

Choose any short story by O. Henry, other than the ones from the textbooks, for reading. Based on the story, complete the following tasks.

Task-1- A book cover based on the short story has to be designed.

Caricatures/cartoons/drawings can also be used. Ensure that the drawings reflect or relate to the short story.

Task-2- Prepare a chart and write down at least 10 verbs from the assigned story and write the noun forms of the same. Also, add some new words from the story to the chart with their meanings

Task-3- Prepare a story map/ flow chart of the story according to your understanding. The story map should include the plot, setting, names of the characters, ending and what you liked the most about the story. You can use your creativity and design your own map.

SUBJECT: BENGALI (SECOND LANGUAGE)

প্রজেক্ট ফাইল

‘ভারতের মিশাইল ম্যান- ডাঃ এ পি জে আবদুল কালাম’
ইন্টারনেট থেকে তথ্য আহরণ করে ডঃ কালামের জীবন সমৃদ্ধ একটি প্রজেক্ট ফাইল
বানাও। ডঃ কালামের সমগ্র জীবন কে এই চারটি ভাগে উপস্থাপিত করতে হবেঃ

ক> জন্ম ও শৈশব

খ> শিক্ষাজীবন

গ> কর্মজীবন

ঘ> সামাজিক ও মানবিক সত্তা

SUBJECT: SPANISH (THIRD LANGUAGE)

Chart work or Making video on "Machu Picchu"

SUBJECT: HISTORY & CIVICS

Imagine yourself in the place of Abraham Lincoln and device peaceful strategies to abolish slavery.

SUBJECT: BIOLOGY

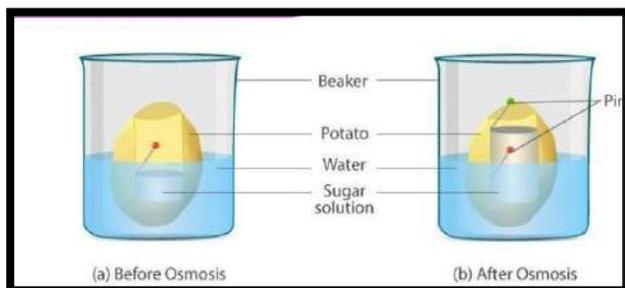
1) Design a potato osmoscope to demonstrate the Process of Osmosis.

Record your observations and conclude with reason.

Write a report stating:

- Aim of the setup

- Materials Required
- Procedure
- Observation
- Inference
- Figure (take a picture of your setup and attach)



Also justify why we cannot use boiled potato in a potato osmoscope.

POTATO OSMOSCOPE

You may refer this link for planning the experiment:

https://www.youtube.com/watch?v=uixn83fA5_Q

Keep the timings 3 to 4 hours.

- 2) Collect two complete and incomplete flowers and design a herbarium with them.

SUBJECT: CHEMISTRY

*Students are required to choose **any one (either A or B)** activity as a part of their summer recess project.*

A. ACTIVITY-BASED LEARNING – Lets freeze it!

All of you have been studying about the inter conversion of matter. We have learnt about the various terms in the course of learning inter conversion viz –melting, boiling, freezing etc. This activity is based on the process of freezing. Liquid milk is boiled and then reduced, sweetened by adding sugar followed by cooling and then frozen overnight. At the end what we get is delicious and delightful Kulfi Ice Cream.

All ingredients required for making the Kulfi Ice Cream are readily available in any kitchen. So beat the scorching summer heat with your Kulfi Ice Cream! **You may seek help from your parents for the task.** Ingredients required for Kulfi Ice Cream are as follows:

1. Milk
2. Sugar

3. Pistachio/Cashew nuts (for garnishing)
4. Aluminum foil
5. Ice cream sticks (optional)

The recipe for making Kulfi Ice Cream has been shared below. Click on the link below for the recipe.

<https://youtu.be/92wUoD1oq98>

Note: Please share your process of making either in the form of a video clipping/or take snaps of your Kulfi Ice Cream and post the same in the assignment section of GCR.

Enjoy making and having your Kulfi Ice Cream and spread love! Please feel free to get in touch at **subhasree.dutta@gemsakademia.in** for any clarifications.

Best Wishes.

B. ACTIVITY-BASED LEARNING – ‘Go green before the green goes’

Organic gardening emphasizes cultivating your garden so that it sustains enriching soil, plants and beneficial insects. This is achieved by avoiding the use of synthetic fertilizers and pesticides, and using products that nurture your garden soil and the organisms in it. When you embrace the organic gardening philosophy, your plants experience a balanced and nourished ecosystem that works as nature intended.

This activity involves the preparation of a homemade fertilizer. You may seek help from your parents for the task.

The steps for making the fertilizer are shared below.

Onion peel fertilizer for your plants:

1. Scrape the onions and put them in a basket.
2. Transfer in a big bowl and add water.
3. Soak them in water, cover and keep for 24 hours.
4. A purple coloured solution will be obtained, strain the solution. Retain the purple coloured water and discard the peelings. Add more water to obtain the fertilizer in bulk.
5. This solution is rich in **potassium** and is ready to be used as an organic fertilizer.
6. Plants should be supplied with this solution 3-4 times a month.

Note: Please share your process of making either in the form of a video clipping/or take snaps of your preparation of onion peel fertilizer and post the same in the assignment section of GCR.

Enjoy making and practice organic gardening!

Please feel free to get in touch at subhasree.dutta@gemsakademia.in for any clarifications.

Best Wishes.

SUBJECT: PHYSICS

1. **Materials Required:** Three glasses of same size, water, salt, sugar, a leaf, a small piece of wood, a piece of cork, a small iron nail, a coin.

Experiment: (i) Fill the three glasses with the same amount of water (say half filled).

(ii) In one glass keep plain water, in the second glass of water mix one tablespoon of salt, in the third glass of water mix one tablespoon of sugar.

(iii) Now place the solids one by one in each of the liquids. Each time you take out each solid from any liquid, it must be wiped with a dry cloth and then put into the next liquid.

(iv) Note down your observations and conclusions in tabular form, having the following columns:

(1) Serial no., (2) Liquid used, (3) Solid used, (4) Floating/sinking, (5) conclusion.

OBSERVATIONS IN TABULAR FORM IS COMPULSORY.

2. Prepare a working model of any **ONE** of the following:

(i) Fire Alarm, (ii) Hydraulic Bridge, (iii) Water alarm, (iv) Projector, (v) Air cooler.

Links are shared below.

Fire Alarm: <https://youtu.be/tUWPPJhNNPw>

Hydraulic Bridge, Water Alarm, Series Circuit: <https://youtu.be/QPVjOEP4cfk>

Projector: <https://youtu.be/Y1yAIC7eWIQ>

Air cooler: <https://youtu.be/L-zXbrQ91ao>

SUBJECT: GEOGRAPHY

Prepare projects on the following topics:

-Discuss whether improved and advanced medical technology and better health care facilities are both a boon and a bane for India. You can give reasons to support your point of view.

-Is India a sustainable country? Justify your answer with proper reasoning.

-India is still a developing country. State your opinion for or against the statement.

- Prepare a project using pictures from brochures and magazines on any four migratory birds.

-Prepare a project based on the recent phenomenon of lining up of the four planets. State its causes and implications.

-The above topics are thoroughly research based.

-Insert related maps, pictures, graphical representations and other illustrations to make your project informative and interesting.

Make your presentation colourful and attractive. Enjoy your holidays.

SUBJECT: BENGALI (THIRD LANGUAGE)

তোমাদের পাঠ্য 'বোকা কুমিরের কথা' ছাড়া অন্য একটি নীতি শিক্ষামূলক গল্প নিজের ভাষায় লেখ। ছবি দিতে পারো। শব্দসীমা ১০০।

SUBJECT: COMPUTER STUDIES

1. Perform the operations on MS Excel given below:

	A	B	C	D	E	F	G	H
1	Name	Basic Rs.	HRA (% of Basic)	DA (Rs.)	Total Salary (1997)	Bonus (Rs.)	Total Salary (1998)	% Increase
2	Shirome	5000	10	450		1200		
3	Somya	6000	15	800		200		
4	Tanya	7000	12	900		1800		
5	Ariz	4000	10	500		1700		
6	Arjun	8000	12	700		1500		
7	Kushagra	9000	12	1000		2000		

You must take help of **arithmetical operators only** to compute the formulae cells as per requirement.

- (i) Compute HRA based on % on basic as specified.
- (ii) To calculate the total salary as sum of Basic Salary, HRA and DA for each employee for the year 1997.
- (iii) To calculate the total salary for each employee for the year 1998 as sum of salary for the year 1997 and bonus. Also calculate the percentage increase in the total salary from 1976 to 1998 for each employee.
- (iv) Rename the worksheet as "EMPLOYEE PAYROLL". Change the color of the sheet tab to "Blue".
- (v) Name the range of cells (H2:H7) as Increase. Find the sum of Increase using auto sum feature.
- (vi) Insert a new row above the header column. Type the following – EMPLOYEE PAYROLL. Apply the feature Merge and Center.
- (vii) Insert a new row above the data sheet and insert the caption "**EMPLOYEE PAYROLL**". Use the feature merge and center to position the heading of the data sheet at the center of it.

- (viii) Use an appropriate feature of MS Excel so that the heading for each column as shown above are displayed in multiple lines.
- (ix) Set the row height of all cells in the worksheet to 18.
- (x) Apply appropriate borders to the cells of the data sheet.

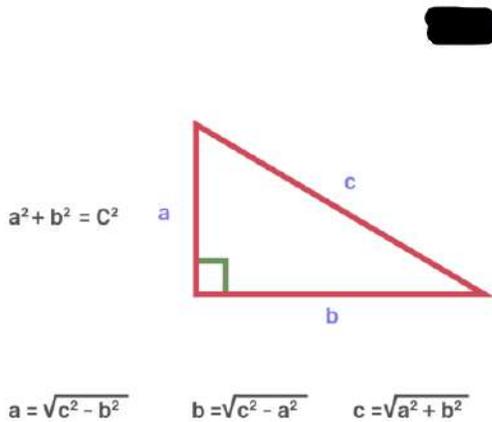
2. Compute Simple Interest from the given variables – Principle, Time Period and Rate.

	Principle	1000							
		Time in Years							
		5	6	7	8	9	10	11	12
Rate of Interest	6%								
	7%								
	8%								
	9%								

SUBJECT: MATHEMATICS

Pythagoras Theorem: This theorem states that the square on the hypotenuse of a right-angled triangle is equal in area to the sum of the squares on the other two sides.

Pythagoras Theorem

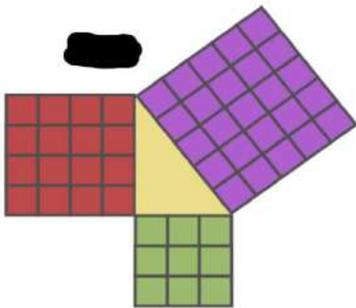


Materials Required:

- Colour papers
- Ruler and sketches

Procedure:

- Cut-out of a right-angle triangle of 3cm, 4cm and 5cm is prepared.
- 3 square sheets of 3 cm × 3 cm, 4 cm × 4 cm, 5 cm × 5 cm are made.
- These square sheets are fixed to the sides of the triangle.
- 9 squares are drawn in the square sheets 3 cm × 3 cm such that 9 squares of equal length are obtained.
- The same procedure is repeated with the remaining squares of 4cm and 5cm to get 16 and 25 squares. • By this work, we can prove the above-said theorem.



Conclusion:

In the above work, we have considered $a = 3\text{cm}$, $b = 4\text{cm}$ and $c = 5\text{cm}$.

$\therefore 3 \text{ squares} + 4 \text{ squares} = 5 \text{ squares}$.

LHS

$$3 \times 3 + 4 \times 4 = 9 + 16 = 25$$

RHS

$$5 \times 5 = 25$$

Hence the theorem is proved.

Conclusion:

Research about Pythagoras and his contributions in Mathematics.

SUBJECT: HINDI (SECOND LANGUAGE)

- ❖ स्वयं एक कविता लिखें।
- ❖ कविता का शीर्षक लिखें।
- आप की गर्मी की छुट्टी कैसे बीती इस पर एक चित्र कथा लिखें।
- काल्पनिक रूप में एक महाद्वीप का निर्माण करें, उसका नामकरण करें, देशों का नाम लिखें, राजधानी के नाम लिखें और मानचित्र बनायें।
- इस महाद्वीप के बारे में अपने शब्दों से इसका विश्लेषण करें।

SUBJECT: ART

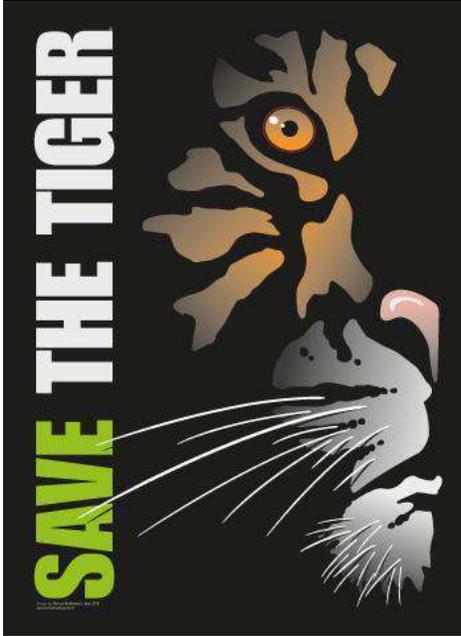
Socially Useful Productive Work (SUPW) is a "purposive productive work and services related to the needs of the child and the community will be proved meaningful to the learner. The training acquired in the classroom or home is expected to help students to solve day-to-day problems of the community.

In addition to developing individual skills, SUPW aims to help develop among the students the habit to work as a community, encourage community thinking, increase awareness of scientific advancements and develop a scientific outlook.

Topic 1: Posters on Save the Tiger

1. Identify the goal of your poster.
2. Consider your target audience.
3. Decide where you want to share your poster.
4. Select a pre-made poster template.
5. Pick a relevant or branded colour scheme.
6. Include a clear call to action.

7. Use varied fonts to create visual hierarchy.



SUBJECT: FRENCH (THIRD LANGUAGE)

A PPT on "A famous French Personality"

The students will make a P.P.T (using some video clips too) and will upload it in the Google classroom