

Summer Holiday Homework: 2021-2022

Class IX

Subject : English

1. Read the first two chapters of 'Moments'. Prepare a mind map of both the chapters.
2. Read the first two poems : The road not taken, The wind. Imagine the scene of the poem and draw a beautiful painting .(any one)
3. Write a short story on any theme. (100 words)
4. Complete the workbook.
5. All work to be done in A4 size sheet

सॅट ग्रिगोरियस स्कूल द्वारका

ग्रीष्मकालीन गृहकार्य (2021-22)

विषय - हिंदी, कक्षा – नवीं

1) गिल्लू कहानी में आपने लेखिका द्वारा पाली गयी गिलहरी का वर्णन पढ़ा है। आप भी अपनी कल्पना से किसी पशु/पक्षी को पालने का ऐसा ही रोचक वर्णन (चित्र सहित) करें।

2) दुख का अधिकार कहानी में बूढ़ी स्त्री और लेखक के बीच की बातचीत संवाद रूप में लिखिए।

नोट -- पूरा कार्य एक फाइल में करें तथा सुंदर -सा कवर पेज बनाएँ।

VINITA SAMUEL

HINDI TEACHER

ST.GREGORIOS SCHOOL, DWARKA

MATHS HOLIDAY HOMEWORK (2021-2022)

CLASS-IX

- I. Cut at least 5 triangles and a quadrilateral of known measurements from glaze papers of different colors, form a beautiful tangram /geometrical pattern ,use Heron's formula (wherever applicable) and find the area of tangram so formed. As follow:

s.no	Name of the figure	sides	Area in sq.cm
			Total area = _____sq.cm

Presentation should be in a tabular form and the total area should be in sq.cm

II. Solve the worksheet given.

PDF of the above work should be submitted Google class room whenever it is assigned for.

❖ **Do all the above activity on A4 size sheet**

ST.GREGORIOS SCHOOL, DWARKA

MATHS HOLIDAY HOMEWORK (2021-2022)

CLASS-IX

Worksheet

- 1) Find the smallest altitude of the triangle whose sides are 50cm, 78cm and 112cm.
- 2) The area of an equilateral triangle is $36\sqrt{3}$ cm² find it's perimeter.
- 3) Find the area of an isosceles triangle if each of it's equal sides are 10cm long and perimeter is 35cm.
- 4) Find the altitudes of an equilateral triangle whose sides are 10 cm long.
- 5) The difference between the semi perimeter and the sides of a triangle are 5 cm, 7 cm and 8 cm respectively then find the area of a triangle.
- 6) Find three rational number between $\frac{5}{7}$ and $\frac{9}{11}$.
- 7) Write the rationalizing factor of $\sqrt[3]{49}$.
- 8) Express $\frac{4}{\sqrt{5}-1}$ with rational denominator.
- 9) How many rational numbers are there between any two rational numbers?
- 10) If $a = 1 + \sqrt{7}$, find the value of $\frac{-6}{a}$.

ST. Gregorios School, Dwarka

HOLIDAY HOMEWORK – (2021-22)

Class – IX -SCIENCE

BIOLOGY

Prepare a project file (using simple A4 sized sheets) on the following, after adequate research from different resources:

The Project will be having weightage for internal assessment, covering portfolio and even art integration. So wherever diagrams have been asked they should be nicely drawn, coloured and labelled neatly.

Project content

- I. What is an Electron microscope and how is it different in its functioning from a Compound microscope (which is used in our school lab.)
- II. Draw neat, labelled and colourful diagrams of the following when observed under a normal Compound microscope:
 - *a. PLASTIDS*
 - *b. MITOCHONDRIA*
 - *c. GOLGI APPARATUS*
 - *d. NUCLEUS*
- III. What will be the difference in your diagrams if the same structures were viewed under an electron microscope?
Search for it --→ then understand--→ then study--→ and then write briefly about the difference.
- IV. Prepare the chapter : The fundamental unit of life, properly and write all the question answers in your Biology note book.

PHYSICS

- Q1. Plan to go to a place by a vehicle. Take readings of odometer and speedometer after every 5 minutes till you reach your destination. Record these observations in tabular form; plot graphs between distance-time . State whether this motion is uniform or non-uniform.

QII. Make a data of any five trains starting from Delhi and going to different states (any five) in India.

(a) Distance covered.

(b) Displacement (you can make use of Atlas to find displacement.)

(c) Average time taken to reach the destination

(d) and hence find the average speed of each train.

(Note: Do the holiday homework in A4 size sheet and file it.)

CHEMISTRY

QI. Create a concept map on three states of matter covering the following points:

-Arrangement of molecules

-Inter molecular force of attraction

-Density

- Shape

-Compressibility

-Conversion of states of matter on heating , cooling

- Sublimation and Deposition

St.Gregorios School
Summer Vacation Project 2021-22
Class - IX (Social Science)

Objectives of the project

The project has been carefully designed so as to-

- a) Create awareness in learners.
- b) Enable them to understand and to relate all aspects of Disaster Management.
- c) Relation of different aspects with life.
- d) Provide hands on experience.

General instructions

- 1) Use only eco- friendly products, no plastic covers.
- 2) Project report should be handwritten.
- 3) It should be of 10-15 pages only.
- 4) Sequence of the project
 - a) Project cover- Name of the project:
Name of the student:
Class and section:
 - b) Index-with page numbers.
 - c) Acknowledgment
 - d) Introduction
 - e) Main content
 - f) Conclusion (Your views)

Topic

Disaster: **Covid-19**

Subtopics

- 1) Covid-19 – History and Origin
- 2) Spread of Corona Virus in India
- 3) How the Covid-19 pandemic affects India
- 4) How did lock down due to Covid-19 affect your right to freedom?

OR

Revival Recipe for the economy

(subheadings)

- Best steps to jump start the economy
- How does the government plan to ventilate the Indian economy?
- What is expected growth forecasts for the Indian economy
- Steps to stimulate the Indian economy

① पाठ 2 "शर्णीकाकः" नामक पाठ से केत्वा तथा ल्यप् पुल्यप छोट कर तालिका बनाओ :-

उदा०	केत्वा	ल्यप्
	1.	1.
	2.	2.

② पाठ 2 में ही आरु तीनो चित्र स्वयं बनाकर दो-दो लट् लकार (वर्तमान काल) के वाक्य बनाओ।



③ पाठ 2 'पुस्तकपेठन' चित्रा के लापके लिए अभ्यास करें

④ लट् लड़, लृट् लकार पर धातु का चार्ट बनाकर दिए गए वाक्यों का संस्कृत में अनुवाद करें।

⑤ नोट - सभी कार्य A4 size sheet में करना है
2. ग्रीलगावकाश गृहकार्य SEA के लिए मान्य है

St. Gregorios School, Dwarka

Holiday Homework (2021-22)

Subject - French

Class – IX

- Pourquoi vous choisissez le français pour étudier ? Quels sont les avantages d'étudier une langue étrangère? (50-60 mots)
 - (vous pouvez écrire sur A-4 size sheets)

- Décrivez votre sport favori en 50 mots.

- Écrivez tout le travail dans les feuilles et préservez dans un dossier.

HOLIDAY HW

ARTIFICIAL INTELLIGENCE

CLASS IX (SESSION 2021-22)

AI is a form of intelligence; a type of technology and a field of study. AI theory and development of computer systems (both machines and software) are able to perform tasks that normally require human intelligence. Artificial Intelligence covers a broad range of domains and applications and is expected to impact every field in the future. Overall, its core idea is building machines and algorithms which are capable of performing computational tasks that would otherwise require human like brain functions

Answer the following in your own words (write answer in register)

1. What do you think Artificial Intelligence is?
2. What do you want to learn about AI?
3. Can complex computer program copy human behaviour, which is often illogical and unpredictable ? Give reason to support your answer.
4. How do you think Artificial Intelligence can help you as you go about your daily life? Fill in your ideas below: (Do this on colored A4 sheet)

