

HAPPY **GRADE IX**
VACATION



HOLIDAY 
Homework 

GRADE 9

ENGLISH

Objectives:

To enhance students reading and comprehension skills in English

To develop students' interest in creative thinking, writing and theatricals

2. Prepare a Brochure on behalf of a travel agency highlighting the tourist attractions of Kathmandu (Curriculum ref: Beehive: Kathmandu)

- It should include photos and short description of the place.

- You must use A4 sheet only for the project.

Or

Prepare a comic strip based on any one the lesson from the textbook.

Submission Date: 1 September 2020

3. Write a film script for any one of the lessons of your interest and make a short film or an animation video

Submission Date: 1 September 2020

Recommended additional Reading:

The Voyage of the Beagle by Charles Darwin

Kim by Rudyard Kipling

Girl with a Pearl Earring by Tracy chevalier

Robinson Crusoe by Daniel Defoe

And Still I Rise by Maya Angelou

Up from Slavery by Booker T Washington

LANGUAGE

HINDI

स्वामी आनंद पर एक पिरयोजना तैयार करें। महात्मा गाँधी के साथ उनके संबंधों के बारे में जानकारी प्राप्त कीजिए। स्वतंत्रता संग्राम में उनका योगदान क्या था ,इसकी भी जानकारी प्राप्त कीजिए। तारों में शुक्र तारे को अत्यधिक महत्वपूर्ण स्थान क्यों दिया जाता है, पाठ के आधार पर लिखिए। (पाठ: शुक्र तारे के समान)

परियोजना का निर्माण , कला के काम के साथ खूबसूरती से किया जाना चाहिए।

FRENCH

Faites deux dessins avec des différences. Collez-les et identifiez les différences. Puis écrivez les différences en utilisant le passé composé

ou l'imparfait qui convient. (10 phrases)

MALAYALAM

1. ' വൃക്തിജീവിതത്തിൽ മാതൃഭാഷയ്ക്കുള്ള സ്വാധീനം ' എന്ന വിഷയത്തെ അടിസ്ഥാനമാക്കി ഒരു പ്രസംഗം തയ്യാറാക്കുക.

2. ' സാമൂഹ്യ മാധ്യമങ്ങളും വിദ്യാർത്ഥികളും ' എന്ന വിഷയത്തെ കുറിച്ച് ഒരു എഡിറ്റോറിയൽ തയ്യാറാക്കുക.

3. ' മാലിന്യവിമുക്ത കേരളം ' എന്ന വിഷയത്തെക്കുറിച്ച് ഒരു പ്രോജക്ട് തയ്യാറാക്കുക.

4. 'തീവ്രവാദം - ലോകസമാധാനത്തിന് ഭീഷണി ' എന്ന വിഷയത്തെക്കുറിച്ച് രണ്ടു പുറത്തിൽ കവിയാതെ ഉപന്യാസം തയ്യാറാക്കുക.

MATHS[ART INTEFRATION]

1.Choose any one of the activities given

Mathematical Knowledge + Your creativity

Spiral Root Plotting

Objective

To construct a square root spiral and add your creativity to it.

Prerequisite Knowledge

Concept of number line, irrational number plotting on number line and Pythagoras theorem.

Materials Required

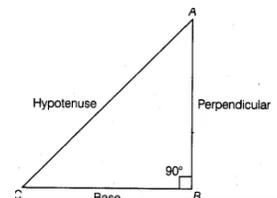
Squared papers, sketch pens, pencil, geometry box, card board.

Theory

1. A number line is a imaginary line whose each point represents a real number.
2. The numbers which cannot be expressed in the form p/q where $q \neq 0$ and both p and q are integers, are called irrational numbers, e.g. $\sqrt{3}$, π , etc.
3. According to Pythagoras theorem, in a right angled triangle, the square of the hypotenuse is equal to the sum of the squares of other two sides containing right angle. ΔABC is a right angled triangle having right angle at B. (see Fig. 1.1)

Therefore, $AC^2 = AB^2 + BC^2$

where, AC = hypotenuse, AB = perpendicular and BC = base



Procedure

1. Take a piece of plywood having the dimensions 30 cm x 30 cm.
2. Draw a line segment PQ of length 1 unit by taking 2 cm as 1 unit, (see Fig. 1.2)

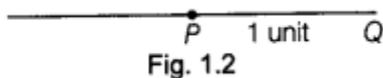


Fig. 1.2

3. Construct a line QX perpendicular to the line segment PQ, by using compasses or a set square, (see Fig. 1.3)

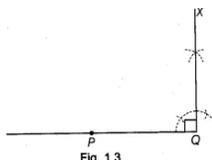


Fig. 1.3

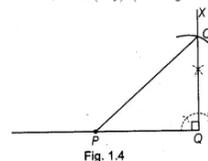
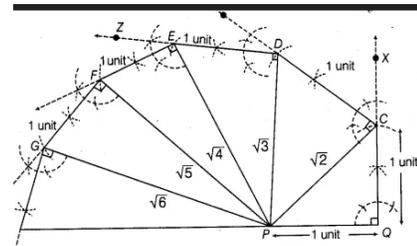


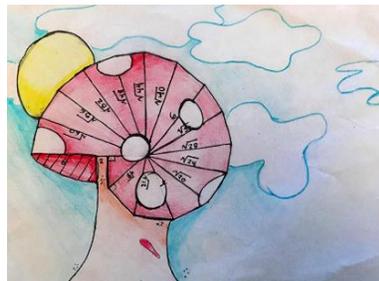
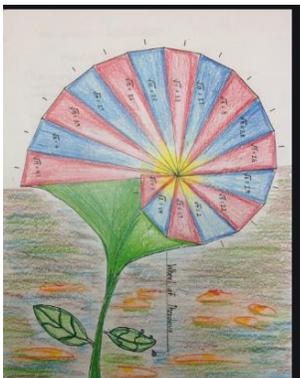
Fig. 1.4

1. From Q, draw an arc of 1 unit, which cut QX at C(say). (see Fig. 1.4)
2. Join PC.
3. Taking PC as base, draw a perpendicular CY to PC, by using compasses or a set square.
4. From C, draw an arc of 1 unit, which cut CY at D (say).
5. Join PD. (see Fig. 1.5)
6. Taking PD as base, draw a perpendicular DZ to PD, by using compasses or a set square.
7. From D, draw an arc of 1 unit, which cut DZ at E (say).
8. Join PE. (see Fig. 1.5)

Keep repeating the above process for sufficient number of times. Then, the figure so obtained is called a 'square root spiral'.



Now how to add your creativity to it?



Add your own creativity to it. You can add any colours or add any traditional arts like rangoli or mehendi designs also.

OR

TESELLATION AND MATHEMATICS

Definition of tessellation and what does it take to create one? When a geometric shape is repeated over and over again, covering a plane of tiles **without any gaps or overlaps**, it results in a **tessellation** - a mosaic pattern of a mesmerizing visual effect. Although it derives from a clear set of rules based on mathematical shapes and calculations - a fact which might give out the impression that there is no space for creativity - **tessellations** have been widely accepted in a great number of cultures, and are employed in many spheres of life such as design and art.

Objective

To identify tessellation in environment and connect it with mathematics.

Materials Required

Squared papers, sketch pens, pencil, geometry box, card board.

Research on Tessellation art. Create a tessellation art using mathematical figures

<https://www.mathsisfun.com/geometry/tessellation.html>

<https://www.youtube.com/watch?v=gcPu2qmHk00>

Rubrics: Accuracy , Creativity, Presentation

2. Complete the worksheet sent to you in your E mail /Uploaded in Teams files.

Objective: To recollect the concepts covered from April to June

Do these questions in A4 sheet paper. Draw margins and submit it neatly

SCIENCE

BIOLOGY

S.No	Class	Project and record work details
1.	9 th grade	ART INTEGRATED PROJECT- INDIVIDUAL WORK Model Making(MATERIALS) Painting. Pulses to decorate ells. Clay model. Recycling materials. Sponges,straws,beads,threads to decorate <u>Following Models to be done- INDIVIDUAL WORK</u> 1. Plant cell (ROLL NO-1,11,21) 2. Animal cell (ROLL NO- 2,12,22) 3. Meristamatic tissue (ROLL NO- 3,13,23) 4. Bacteria (ROLL NO- 4,14,24) 5. Nucleus (ROLL NO- 5,15.) 6. Mitochondria. (ROLL NO -6,16,) 7. Nervous tissue (ROLL NO- 7,17,) 8. Muscular tissue (ROLL NO- 8,18,) 9. Different types of cells in multicellular organisms. (ROLL NO- 9,19) 10.Chloroplast. (ROLL NO- 10,20) 11.Opening and closing of stomata.

		(ROLL NO-25,26) 12.Parenchyma,Collenchyma,Sclerenchyma (ROLL NO- 27,28)
2.	RECORD	<p>1.Preparation of stained temporary mounts of (a) onion peel, (b) human cheek cells & to record observations and draw their labeled diagrams.</p> <p>2. Identification of Parenchyma, collenchyma and Sclerenchyma tissues in plants, striped, smooth and cardiac muscle fibers and nerve cells in animals, from prepared slides. Draw their labeled diagrams</p>

CHEMISTRY

Periodic table with first 20 elements.(Art Integration-Cross curricular link)

1.Create a periodic table with first 20 elements so that each elements should be represented by its use or applications in your real life /daily using things.

Here are some of the examples given you can do your own creativity in it. You can use foam boards or cartoon boards as the background.





Rubrics to be followed while doing the holiday assignment

No	Items	Neatness	Creativity	Submission	Total(Marks)
1.	Scrap Book	3	2	5	10

PHYSICS

ASSESSMENT TECHNIQUE: ART AND ARTIFICIAL INTELLIGENCE PROJECT

OBJECTIVES:

- ❖ Create a comic strip to illustrate how different forces applied to an object can cause or change object movement. [PICTORIAL REPRESENTATION] **ART**
- ❖ To demonstrate inertia of rest and inertia of motion(puppet show) . [VIDEO PRESENTATION] **ART**
- ❖ story about great scientists and their discoveries[NEWTON AND LAWS OF MOTION] using story speaker

Link to install Story Speaker extension for Story Speaker: [**ENGLISH, SOCIAL STUDIES**]<https://chrome.google.com/webstore/detail/story-speaker/ohfibfhfhbkknfdkipjdopbnegkbpj>

Introduction to Story Speaker:

<https://www.youtube.com/watch?v=wsrzvYYvhH8&feature=youtu>

- ❖ visual and spacial representation of motion of objects.
go to <https://autodraw.com>. **[MATHS]**

INSTRUCTION:-CHOOSE ANY TWO PROJECTS AND INTEGRATE IT TO ART, ARTIFICIAL INTELLIGENCE AND OTHER SUBJECTS.

SOCIAL STUDIES

DISASTER MANAGEMENT - Project Work: **(5Marks)**

Every student has to compulsorily undertake a project on ANY ONE of the following units/topics.

The Project Report should be handwritten by the students themselves with appropriate pictures with caption and comprise of not more than 15 (A4 size pages).

- 1. Getting Acquainted with Disaster Management**
- 2. Specific Hazards and its Mitigation**
- 3. Preventing Common Human Induced Disasters**
- 4. Community Planning for Disaster Management**

The project has been carefully designed so as to –

- a) Create awareness in learners
- b) Enable them to understand and co-relate all aspects of selected topic
- c) Relate theory with practice
- d) Relation of different aspects with life
- e) Provide hands on experience

The distribution of marks over different aspects relating to Project Work is as follows: (Rubrics)

S.NO.	ASPECTS	MARKS
1.	Content accuracy and originality	1
2.	Presentation and creativity	1
3.	Process of Project Completion: Initiative, cooperativeness, participation and punctuality	1
4.	Viva or written test for content assimilation	2

5. Together, Towards a Safer India - Part II, a textbook on Disaster Management for Class IX - Published by CBSE

Prescribed book

GEOGRAPHY

To complete all Worksheet and Textual Questions (Notebook Completion) till
Drainage Chapter

UAE-SOCIAL STUDIES

Dear Students,

Read the lessons mentioned under each chapter of the TERM 1 BOOK. Complete the TASK SHEET given under them.

Make sure to conduct the research provided under them.

The tasks are to be completed on or before the reopening day of the school.

ARABIC

كتابة مقال من ثلاث فقرات عن اليوميات الإلكترونية مع تقديم الأمثلة.

2- كتابة صفحة من "يومياتي" لأحد أيامك خلال أيام العطلة -

3- أكتب عن البلد الذي تحلم بالذهاب إليه إما للعيش فيه أو لزيارته زيارة قصيرة أو طويلة مراعيًا وجود مقدّمة - ووسط وخاتمة.

ISLAMIC

(Boys): Prepare a booklet on “Biography of Omar bin Al-Khattab (RA)” including inspiring aspect of his life.

(Girls): Prepare a booklet on “ Hafsa bint Omar (RA)” including inspiring aspect of her life.