

**DLF QEC INNOVATIVE SCHOOL  
RIDGE VALLEY  
DLF PHASE – IV, GURUGRAM, HARYANA**

RVS/CIR/031(B)/2023-24

22<sup>nd</sup> MAY 2023

**SUMMER BREAK ENRICHMENT WORK**

Dear Parent,

With summer holidays around the corner, our hearts swell up with a spectrum of emotions. To maintain educational continuum and to keep in view the rejuvenation you need, an enriching homework for the holidays has been designed to keep them constructively busy.

The students' work will be exhibited during **MERAKI** – an **Exhibition of Scholastic and Co-scholastic subjects**, in the month of July. The project work assigned to the students have been planned to unleash the hidden talents of students and provide them an enjoyable learning experience, we would appreciate if your child completes all tasks and submits the holiday homework on the stipulated date. It is mandatory for all students to complete **a minimum of three tasks** enlisted in the summer break homework, that has already been shared through the ERP.

We wish you and your family a happy bonding time during the vacation.

**The school will reopen after the summer break on Monday, 3<sup>rd</sup> July 2023.**

Warm Regards

Ms. Nidhi Tewari  
Principal

**DLF QEC INNOVATIVE SCHOOL**  
**RIDGE VALLEY, GURUGRAM**  
**SUMMER BREAK ENRICHMENT WORK**  
**ACADEMIC YEAR: 2023-24**  
**CLASS: IX**

Summer vacation is a welcome break. Break from fixed schedules, rules and regulations of the school. It is the time when students can relax and enjoy their free time. It is a time to catch up on rest, spend time with friends and family and explore new hobbies and interests. Freedom brings more responsibility, so keeping this in mind; we have planned most of the activities to keep them engaged and bring about a positive change in the society. The holiday homework has been designed to keep up the excitement and make the vacation memorable. It is based on the topics given in CBSE curriculum and students are expected to research and prepare the project reports and present their work in a creative manner. You may do the holiday homework of any three subjects of your choice.

Please find below the rubrics of evaluation:

- creativity and originality
- neatness and work presentation
- timely submission
- adherence to the guidelines given by the teacher

Kindly help and guide your child in completing the work and also exploring his/ her creative self. Submit the given homework in a folder with clearly mentioned name, class and section.

Happy Holidays!



## Holidays Homework



**Hurrah!**

**School is over, oh! What fun!**

Dear Students,

Holiday is the time that we all eagerly wait for. We all make plans to enjoy, to relax and to empower ourselves during these gala days.

This summer vacation, the Holiday Homework is designed keeping the following motto in mind-

**"Enjoy, Learn and Evolve"**

It is an attempt to channelize your creative energy. Doing it in the right spirit with enthusiasm will make it a great learning experience. Make sure that your work is neat, presentable, original and conforms to the assessment criteria specified subject wise.

Wishing you all a warm, positive and an engaging summer break!



# ENGLISH

## 'My Book of Photography'

**'A book of photography contains a sequence of images, representing a narrative in its own right.'**

Create your own unique 'Photography Book' based on the state of 'Manipur' of not more than 5 to 6 colourful pages. Critically evaluate and explain the aesthetics and importance of each photograph chosen by you in 50-60 words below the photos on every page. Also, design an innovative book cover for your book.





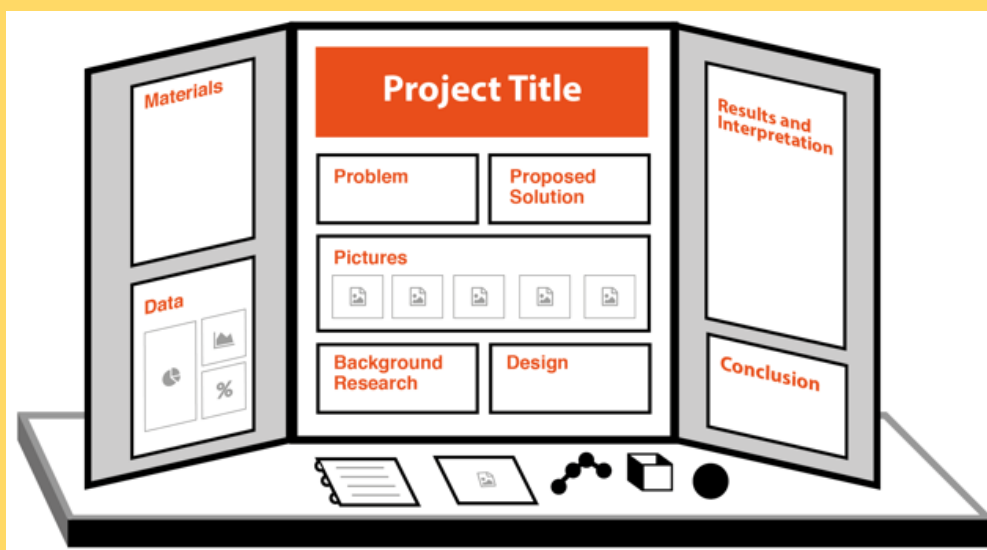
Select any one problem statement as per the roll numbers mentioned below and come up with an innovative solution in the form of a model.

| Roll numbers | Problem statements  | Subject and Topic Integrated                   |
|--------------|---|--|
| 1-5          | <p><b>Chemical-free, non-toxic sanitization solutions</b><br/>The chemical sanitization solutions used currently do not prevent the possibilities of alcohol poisoning, which remains the same case for hand sanitizers. The chemicals eventually damage the animal tissues after prolonged usage. Suggest a solution which would be associated with non-toxic sanitization solutions.</p> <p><b>Non-contact and efficient delivery solutions</b><br/>The COVID-19 pandemic has encouraged people to re-evaluate their primaries very quickly and has forced them to adapt to the constraints set by governments imposing self-isolation. Expand and develop a contactless home delivery system that can play a vital role in ensuring a smooth-running lifestyle even within the houses.</p> | <b>Biology – Why do we fall ill?</b>           |
| 6-10         | <p><b>Accurate weather information for optimizing irrigation.</b><br/>Weather has an enormous impact on the lives of farmers. If the monsoon comes early and farmers haven't finished their harvesting; they are in real trouble. If a storm is approaching and they don't prepare their crops, again they will be in big trouble. Over-exposure or under-exposure to water can be detrimental to the vegetables. Design a solution technology for addressing this problem.</p>   | <b>Biology – Improvement in Food Resources</b> |

|        |  |  |
|--------|--|--|
| 11-15  | <p><b>Water Treatment</b><br/>Design a small-scale filtration plant that you could use to clean muddy water.</p> <p><b>Earthquake Management</b><br/>1. Device an experiment to show reflection of sound. (Refer to page no. 133 of NCERT Textbook).<br/><br/>2. Demonstrate how sound waves are created and help in propagation of sound. (Refer to page no. 130 of NCERT Textbook).</p>  | <p><b>Chemistry – Is Matter Around us Pure</b></p> <p><b>Physics – Sound</b></p>                     |
| 16 -20 | <p><b>Engineering for sustainable development</b><br/>Many times, drivers feel very sleepy due to long hours of driving. This is the major cause of road accidents. create a safety device using eye blinker sensor for drivers which may prevent road accidents happening due to drowsiness of the driver. Create a circuit code which gives the right signal sensors, and which consequently helps drivers to be safe.</p> <p><b>Air Ambulance</b><br/>Many times, patients die due to traffic jams or patients are not able to reach hospitals on time. Make an air ambulance which is very cost effective and easily accessible to the patients.</p> | <p><b>Physics – Motion; Force and Laws of Motion</b></p> <p><b>Biology – Why do we fall ill?</b></p> |

Any other project demonstration from any concept included in your curriculum can also be designed and presented.

**Format of displaying the information:-**







# SOCIAL SCIENCE

## Striking Tribal Decor and Jewellery

Most of the tribal art forms have stories associated to them! Though there are numerous art and craft forms in India, listed below are some of the top spots to locate the Tribal Art Forms spread across India. Using any **ONE** of the art forms listed below create Painting / Wall hangings / mask / Lamp shades / Wooden art and craft / Flower Vase / Jewellery / Accessories which can tell a tribal story.

Warli Art

Tanjore Art

Madhubani Art

Bhil Art

Bastar Art

Gond

Pattachitra painting

Khovar Art

Kawad Art

Saura Art

Phad Art

# हिंदी

१. हरियाणा राज्य की किन्हीं 2 सांस्कृतिक धरोहरों के चित्रों का प्रयोग करते हुए उन पर हिंदी में संक्षिप्त परिचय लिखें। प्रस्तुति A-4 साइज की शीट पर की जानी है व परिचय कम से कम 120-150 शब्दों का होगा।

दोनों धरोहरों का नाम, निर्माण वर्ष, बनाने वाले का नाम, स्थान व विशेषता का वर्णन करेंगे।

<https://youtu.be/MLUo9Xcx3gs>

दिए गए लिंक से गतिविधि की सूक्ष्म जानकारी हासिल कर सकते हैं।





# GERMAN



Write an article for the school magazine in German based on the theme “Flashmob” (word limit 250-300 words). Illustrate with pictures and sketches. Present your work creatively on an A-4 sheet. You may refer to the following video for ideas:

<https://www.youtube.com/watch?v=Usc8-FXx6M4>

# SPANISH



## **Creative Writing.**

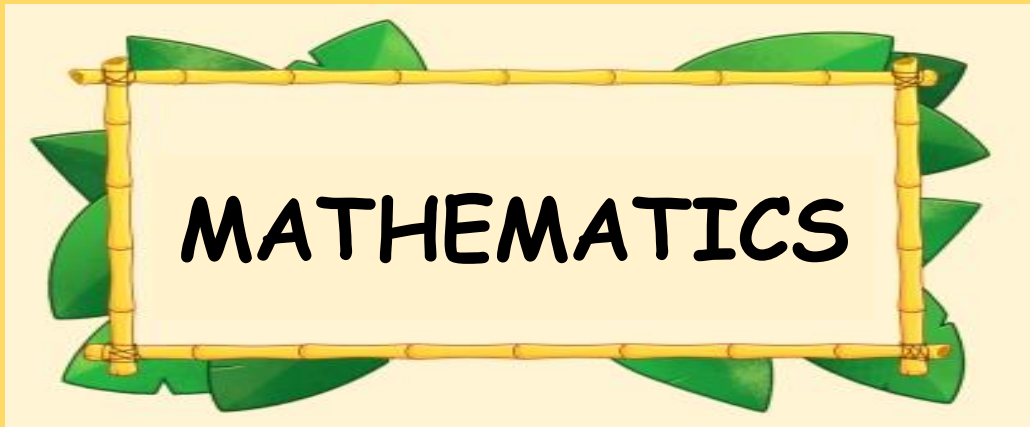
**Kindly write a brief description of Miguel de Cervantes in 150-200 words and include the following points.**

- Famous book/work(Don Quijote) -A brief description on Don Quijote.
- -How has he contributed in Espana Literature.

Kindly do it on a A3 size sheet depicting creatively the biography and famous work of Miguel de Cervantes.

The following link to know in detail about Miguel de Cervantes.

<https://infoeducacion.es/primaria/biografia-de-miguel-de-cervantes-para-ninos-de-primaria/>



**AIM:** To ensure students gain practical knowledge and understanding of the concept and to develop research insight.

**" I CAN SEE MATHS AROUND ME"**

**Prepare videos/ PPT/ Animated Video on ONE of the topics given below:**

**1)Topic: Role of Mathematics in outdoor/ indoor Sports**

Hint :

Dimensions / shapes of the play ground in different sports like volley ball, cricket, football, rugby ground, swimming, running , lawn tennis etc

Shapes of equipments and Diet of players use in sports.

**2) Topic: Role of Mathematics at home**

Hint:

Space management in kitchen. Cooking and arrangement of utensils, Furniture , wardrobe etc

**3). Topic: Role of mathematics in Engineering, Technology and Architecture**

Hint:

Angle and speed of Aeroplane while take off and landing etc, bridge , vehicles etc

**Note: Duration of the video must be  $1\frac{1}{2}$  - 2mins.**

# ARTIFICIAL INTELLIGENCE

## Topic : Role of AI in achieving SDG11(Sustainable Cities and Communities)

### Instructions:

- Research for 5 AI application /devices that can be used for making cities smart and sustainable.
- Categories the applications in domains of AI(CV,NLP and Data Science) .
- Explain the use of these Application/devices in achieving the goal between 150-200 words for each application.

### Template for explaining the project:

- Present your work in the form of a PPT/scrap file /3D modeling software.

Picture



Explanations of Role of Application/Device in Making cities smart and sustainable.  
Explanation must include the advantages and disadvantage of using these applications.

Name of the Application/Device

AI domain



**Aim:** To gather information about seasonal fruits and vegetables and their cost.

**Methodology:**

Visit any local vegetable market with your parents and prepare a list of seasonal fruits and vegetables available in summer season. Record the cost of at least five fruits and five vegetables on an A4 size sheet with their picture.

**Prepare a recipe booklet** on healthy foods using the seasonal fruits and vegetables available in the market.

Recipe booklet must include a beverage, a snack item, a main course and a salad.

Recipe booklet should have index, page number, Pictures of the recipe mentioned in the booklet with ingredients and nutritive value.

Estimate the cost per serving of the dish you have mentioned in your recipe booklet and prepare any one dish from your recipe booklet. Record the video while preparing the recipe and bring it in a pen drive when the school reopens.



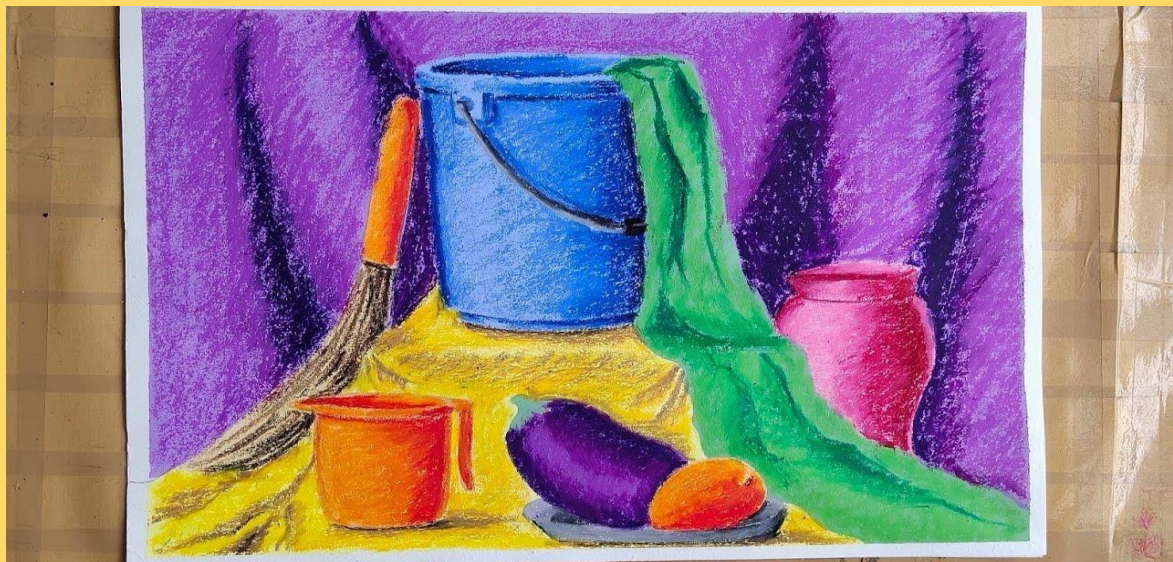


## Painting Composition

**Painting-Composition** Painting from Memory – Simple composition in water/poster/pastel colours

on given subjects based on sketching from life and nature. It may also be in abstract/semiabstract/folk art forms.

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## Theory

Chapter-3 Understanding and Appropriate Use of Tools.

Chapter-4 Understanding and Appropriate Use of Painting Materials

### Instructions:-

- Use A -3 size sheet for painting.
- Water based colour to be used.





## **Working with Excel**

Make an Excel sheet to present the result analysis

### **Instructions:**

**Create a worksheet with following columns:**

- Roll NO, student Name, Sub1, Sub2, Sub3, Sub4, Sub5 Marks and perform result analysis as follows:
- Maximum marks in each subject
- Minimum marks in each subject
- Average Marks in each subject
- Total marks of student
- Percentage
- If percentage of students is greater than or equal to 33 marks student as pass otherwise fail