



Swaraj Public School, Damla  
Aff. No :531727 School Code:41704  
Website :www.spsdamla.edu.in

Session 2023-24

**Summer Enrichment Programme  
Class - VIII**

**SUMMER TIME, SUMMER TIME**

**LET'S GO OUT AND PLAY**

**TIME FOR FUN AND LOTS OF SUN**

**I LOVE THESE KIND OF DAYS**

**SUMMER TIME, SUMMER TIME**

**SWIMMING TO STAY COOL**

**PILLOW FIGHTS,**

**AND LATE NIGHT FIGHTS**

**AN AWESOME BREAK FROM  
SCHOOL**

**:) APPRECIATE NATURE** - GO FOR LONG WALKS IN A PARK OR GARDEN WITH YOUR FAMILY AND FRIENDS. GROW A PLANT AND NURTURE IT.

**:) UNRAVEL THE ARTIST IN YOU** - CREATE A NEW STORY, TRY A NEW RECIPE WITH YOUR MOM, LEARN A NEW SONG, PLAY A NEW INSTRUMENT.

**:) GOOD MANNERS ARE THE KEY-** RESPECT YOUR PARENT, GRANDPARENTS AND ALL ELDERS.

**:) USE THREE MAGICAL WORDS** (SORRY, PLEASE AND THANK YOU) OFTEN. 'A LITTLE MORE COURTESY GOES ALONG WAY.'

**:) STAY FIT, STAY HEALTHY** - PLAY YOUR FAVOURITE GAME/SPORT REGULARLY.

**:) DEVELOP IN YOURSELF** THE SPIRIT OF SPORTSMANSHIP & SENSE OF HEALTHY COMPETITION.

**:) LEARN ABOUT OUR HERITAGE** - FIND SOME TIME TO VISIT MUSEUM AND MONUMENTS. READ ABOUT THEM.

**:) LEARN NEW THINGS RELATED TO YOUR COUNTRY.**

**:) SAVE NATURE** - CONTRIBUTE TO SAVE OUR PRECIOUS ENVIRONMENT. MINIMIZE THE WASTAGE OF RESOURCES LIKE WATER AND FUEL



## SUMMER ENRICHMENT PROGRAMME

Class-VIII (2023-2024)

### SCIENCE

1. RAILWAY STATION BOARD WITH PLATFORM STATION NAME AND TRAIN



Innovation-Precautions for accident in Railways with a with Alarm system.

**Questions related to the project:-**

- Q1.** Why the railway tracks are constructed parallel.
- Q2.** Find the width of the railway track you have made in your model. Also measure the length of the track in your model using thread or measuring tape.
- Q3.** A train is 150m long, if the train takes 30 sec to cross a bridge. What is the speed of train. Write the formula used to find the speed of train. Find the speed in km/hr.
- Q4.** The distance between two stations is 340km. Two trains start simultaneously from these stations on parallel tracks to cross each other. The speed of one of them is greater than the other by 5km/hr. If the distance of their start is 30km. find speed of each train using distance formula.
- Q5.** Find the circumference of railway track from your model.

Rollno(5to8)

### SCIENCE:-

2. Airbase with Working Aeroplane



**Questions related to the related project**

- Q1.** How much time a planet takes to descend and land?
- Q2.** At what distance from the earth's surface the planes fly. And why the distance is too much?
- Q3.** An aeroplane flew from city A to city B at a speed of 500km/hr. fifteen minutes later an aeroplane took off from city B to city A at a speed of 450km/hr. after 45 minutes the planes meet. Determine the distance between A and B.
- Q4.** The price of the flight tickets from Delhi to Bangalore is Rs 4840. But if the booking is done 3 months before 20% discount given. Manvi has booked her tickets before 3 months. So at what price she has booked the tickets.

**Q5.** An aeroplane left change international airport at 9 p.m and flew 5841km to Dubai international airport. If plane flies at an average speed of 649km/hr. What is the plane's arrival time.

### Science

- Q1.** Who invented aeroplane?
- Q2.** What is the working process of aeroplanes?
- Q3.** Which fuel is used in aeroplanes?
- Q4.** What are the four forces off light?
- Q5.** What are the laws of flight?

### Rollno-(9to12)

#### SCIENCE:-

3. Model of ship with hydraulic bridge.



#### Questions related to this project:

- Q1.** In the model of your ship , what is the length of mast . If the mast is 9 cm high, while the mast of the actual ship is 12m. and if the length of the ship is 28m ,how long is the model ship or find the length of the model ship.
- Q2.** A ship takes 10 days to reach a destination by travelling at the speed of 20miles per hour . How long will it take when the ship travels 40 miles per hour.
- Q3.** A plane is flying at a height of 5000m above the sea level. At a particular point, it is exactly above a submarine floating 1200m below sea level . (i) What is the vertical distance between them. (ii) Also represents the distance of plane and sub marine in integer form.
- Q4.** What is the minimum and the maximum speed of the ship.

#### Science

- Q1. How does a ship work?
- Q2. Who invented the ship?
- Q3. What are the six motions of a ship?
- Q4. How does a ship float?

### Rollno:(13to 16)

4. Bio gas Fuel Plant and Bio Gas Fuel Vehicle



**Questions related to this project**

1. What gas is used in biofuel?
2. Which plants are used for production of biofuel?
3. What are 5 types of biofuel?
4. How is biofuel produced at plants?
5. Which seed is used in biofuel?
6. What is the biggest source of biofuel?
7. What are the two main types of fuel?
8. What kind of energy is biofuel?
9. Which biofuel is the best?

**Roll no: (17 to 19)**

5. Bus bar solar and solar charging station



**Questions related to this project**

1. How does solar bus work?
2. What substances are used in solar panels?
3. What is bus bar solar?
4. What is a group of solar panels called?
5. What is the speed of solar bus?
6. What are the benefits of solar powered buses.

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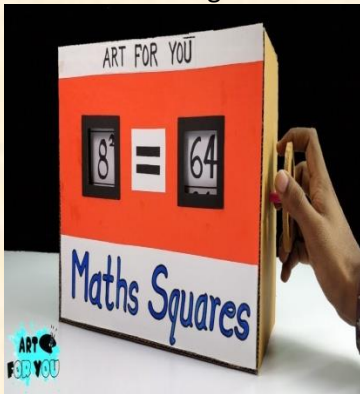
**Rollno: (20 to 21)**

**Maths:-** Make a model of Robot using quadrilaterals and Also write the properties of all the quadrilaterals



**Roll no. (22,23)**

**Maths:-** Make a working model of maths square machine showing the square of different numbers .



You can take help from the link given below.

<https://www.youtube.com/watch?v=dJBYjD4TwKU>

**Roll no (24,25)**

**Maths:-** Make a spinning wheel representing the collection of different types of numbers in our number system. (upto rational numbers ).



You can take help from the link given below.

[https://www.youtube.com/watch?v=Km2f\\_MNYy-o](https://www.youtube.com/watch?v=Km2f_MNYy-o)

**English:- (Common for all students)**

1. How the artificial intelligence is helping in medical field. Write a report along with the pictures.
2. Write an article on the Environmental effects of excessive building of the tunnels, bridges and flyovers.
3. Compose a beautiful poem on Science and innovation

**Hindi:- (Common for all students)**

1. आज के समय में अगर यातायात के साधन ना हो तो , आप सोच सकते हैं कि आपकी जिंदगी कैसी होगी ? आप उस दृश्य का अनुमान लगाइये, जब यह यातायात के साधन ना होने पर भी सारे काम किये जाते थे |
2. आज के समय में हम किस किस यातायात के साधनो का इस्तेमाल करते हैं और किस एक यातायात साधन के सफर के बारे में लिखे |
3. आज के तकनीकी युग में किस यातायात के साधनो में सबसे ज्यादा बदलाव आ रहे हैं उनके बारे में एक तालिका तैयार करें |
4. आप अपने दोस्तो के साथ पहाडी क्षेत्र में रेल यात्रा करते हुए गए हैं उस यात्रा का वर्णन करते हुए अपने पिता जी को पत्र लिखे

**Maths(Common for all students)**

MATHS VISIT: Visit to your nearby railway station and make a list of the mathematical objects around you. Also click pictures with the objects you observe.

Q1. Why the railway track is constructed parallel?

Q2. Why the compartments of the train are in cuboidal shape .

Q3. Observe the symmetrical objects around and draw the lines of symmetry.

Q4. What is the distance of the passengers from the track on the platform to stand when they have to wait for their train

Q5. What is the distance between two railway tracks to avoid collision of trains.

Q6. Make a list of the Quadrilaterals you have used in your model. Describe about the properties of each quadrilateral used.

**Computer (common for all students)**

Make a project model on LAN, WAN, (8th -B)

Make a model of computer network (8th -A)

**Arts- (Common for all students)**

Make different types of flowers using paper and create and small wall hanging with them.

Reference links for the projects:

1. <https://youtu.be/VVM-Yy5qkI8>

2. <https://youtu.be/Elu59ch3HaU>

3. <https://youtu.be/9PZzZNG3xS8>

4. [https://youtu.be/3AivV\\_mz2jk](https://youtu.be/3AivV_mz2jk)

5. <https://youtu.be/oe06Zb185WA>

6. [https://youtu.be/-sbWT\\_L0T10](https://youtu.be/-sbWT_L0T10)

7. <https://youtu.be/Nsm25JWU9Y8>

8. <https://youtu.be/0AFb3q9uJ>

**EBSB**

\*Title page

**SWARAJ PUBLIC SCHOOL DAMLA, YAMUNANAGAR**

**'EK BHARAT SHRESHTHA BHARAT'**

**Project**

**Session 2023-24**

Name of class incharge Ms. \_\_\_\_\_

Name of project \_\_\_\_\_

Name of student \_\_\_\_\_

Roll no: \_\_\_\_\_

Class & Section : \_\_\_\_\_

Signature of class incharge \_\_\_\_\_

1<sup>st</sup> Page

Make a colourful & beautiful map of state Manipur.

2<sup>nd</sup> Page

Name of the state	:	Manipur
Symbols of Manipur	:	
Capital	:	
Fruit	:	
Emblem	:	
No. of Districts	:	
Mammal	:	
Language	:	
Bird	:	
Chief Minister	:	
Flower	:	
Governor	:	
Tree	:	
Area	:	
Sport	:	

3<sup>rd</sup> Page:- Learn and write 5-10 alphabets of Manipuri.

4th page :- History of Haryana and manipur

5th page :- Culture of haryana and

6th page :- Crops grown in haryana and manipur

**SPECIAL DAYS ACTIVITIES:**

➤ **World Environment Day:**

Plantation Drive- Grow Plants in a Vertical Garden and send the Pictures to the class teacher till 2<sup>nd</sup> June.

➤ **FATHER'S DAY ACTIVITY:(To be submitted till 15 June )**

Make a Beautiful collage/album of your childhood pictures with your father and present that to him on fathers day also send the picture to the class teacher by 15<sup>th</sup> June.

