



Swaraj Public School, Damla
Aff. No :531727 School Code:41704
Website :www.spsdamla.edu.in
Session 2023-24

Summer Enrichment Programme
Theme – Increment Innovation
Class - IX

<p>SUMMER TIME, SUMMER TIME</p> <p>LET'S GO OUT AND PLAY</p> <p>TIME FOR FUN AND LOTS OF SUN</p> <p>I LOVE THESE KIND OF DAYS</p> <p>SUMMER TIME, SUMMER TIME</p> <p>SWIMMING TO STAY COOL</p> <p>PILLOW FIGHTS,</p> <p>AND LATE NIGHT FIGHTS</p> <p>AN AWESOME BREAK FROM</p> <p>SCHOOL</p>	<p>:) APPRECIATE NATURE - GO FOR LONG WALKS IN A PARK OR GARDEN WITH YOUR FAMILY AND FRIENDS. GROW A PLANT AND NURTURE IT.</p> <p>:) UNRAVEL THE ARTIST IN YOU - CREATE A NEW STORY, TRY A NEW RECIPE WITH YOUR MOM, LEARN A NEW SONG, PLAY A NEW INSTRUMENT.</p> <p>:) GOOD MANNERS ARE THE KEY- RESPECT YOUR PARENT, GRANDPARENTS AND ALL ELDERS.</p> <p>:) USE THREE MAGICAL WORDS (SORRY, PLEASE AND THANK YOU) OFTEN. 'A LITTLE MORE COURTESY GOES A LONG WAY.'</p> <p>:) STAY FIT, STAY HEALTHY - PLAY YOUR FAVOURITE GAME/SPORT REGULARLY.</p> <p>:) DEVELOP IN YOURSELF THE SPIRIT OF SPORTSMANSHIP & SENSE OF HEALTHY COMPETITION.</p> <p>:) LEARN ABOUT OUR HERITAGE – FIND SOME TIME TO VISIT MUSEUM AND MONUMENTS. READ ABOUT THEM.</p> <p>:) LEARN NEW THINGS RELATED TO YOUR COUNTRY.</p> <p>:) SAVE NATURE – CONTRIBUTE TO SAVE OUR PRECIOUS ENVIRONMENT. MINIMIZE THE WASTAGE OF RESOURCES LIKE WATER AND FUEL</p>	
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SUMMER ENRICHMENT PROGRAMME

ENGLISH

LET'S WRITE TO INCREMENT THE THOUGHTS THROUGH THE WORDS OF EXPRESSION.....WITH INNOVATION

- Q1. Write an abstract to highlight the importance of increment innovation on hydroponic garden, crystal powered radio, optical illusions on A4 sheet.
- Q2. Listen to the business podcast about innovation to practise and improve your listening skills as well as right the order of incremental innovation or stages for that particular task. Also write how increment innovation is important on A4 sheet.
- Q3. Prepare the graphic organiser stating your opinion clearly in the following format. About the increment innovation about the project allotted on colourful presentable sheet.

GRAPHIC ORGANISER

OPINION - (Positive or Negative)
Supporting features -
FACTS About the project -
Advantages as Incremental Innovation -

Q4. Solve the given page number of the school worksheet.

Page No. - 3 to 16, 24, 25, 29, 30, 46 to 48, 57 to 59

Q5. Prepare the project analysis report for the allotted project. use the colourful presentable A4 sheet following the given format.

PROJECT ANALYSIS

Step 1: Summarize What are the key points.	Step 2: Assess Is it a good source? Why?	Step 3: Reflect How did it help you with project?

PRINCIPLE OF THE PROJECT:

HINDI

बहुउद्देशीय परियोजनाएं

1. बहुउद्देशीय परियोजनाएं किसे कहते हैं उसके लाभ और हानि लिखें ।
2. बहुउद्देशीय परियोजनाएं हरियाणा में कहां-कहां है। विस्तार पूर्वक लिखें।

MATHS

1. Make a calendar for any one month or the going on month and pen down all the maths used in the calendar. i.e. tricks or patterns. (Avish, Kajal)
2. Make a square root spiral Peacock, duck, lizard (vibhanshi, lavanya)
3. Make a working model for square root spiral (chakshit, Aryan)
4. Make a Cartesian plane using straight wooden sticks or by newspaper folding locating the position of any object (Rahini, jaspreet)
5. Make a working model for transversal line (angles made by transversal with parallel lines.) (hitesha, rudra)
6. Make a working model of spin wheel showing all 8 identities. (aayush, yashvi)

Common for all students (activities from Lab manual)

1. To interpret geometrically the factors of a quadratic expression of the form of $x^2 + bx + c$
2. To verify the identity $a^3 - b^3 = (a - b)(a^2 + ab + b^2)$
3. To obtain the mirror image of a given geometrical figure with respect to the x-axis and the y-axis.
4. To obtain a linear equation and draw a graph which represents the Linear equation.
5. To show that two parallel lines are intersected by transversal.
6. Verify that, if a side of a triangle is produced, the exterior angle so formed is equal to the sum of its two interior angles.

SCIENCE

Increment innovation lets follow the theme of modification creating our own innovation through the skills of knowledge, critical thinking, creating new versions.

1. To prepare or make the working model well organised and presented as allotted by your respective teachers.

1. Accurate Weather Forecasting
2. Floating Rice

3. Gender Influence on Math Anxiety
4. Hydroponic Garden
5. Crystal Powered Radio
6. Plastic Bottle Bridge
7. Apple Wrecking Ball
8. Symbiotic Plants and Bacterial
9. The Chemistry of Colorful Fire
10. Optical Illusions in Color and Black & White
11. Rubber Band Car
12. Earthquake Science
13. Forensic Fingerprints
14. Effects of Antibiotics on Bacteria
15. Glowing Water
16. Rain or Snow: Which is more Acidic?
17. Candy Lab

2. To write the protocol in the practical files from lab manuals of the following aim of experiments. The format and the instructions to be followed as guided within the attached document. Make sure the procedure to be written in past tense only.

1. Preparation of:

- a) a true solution of common salt, sugar and alum
- b) a suspension of soil, chalk powder and fine sand in water
- c) a colloidal solution of starch in water and egg albumin/milk in water and distinguish between these on the basis of transparency

a) filtration criterion

b) stability

2. Preparation of

a) A mixture

b) A compound

Using iron filings and sulphur powder and distinguishing between these on the basis of:

- (i) appearance, i.e., homogeneity and heterogeneity
- (ii) behaviour towards a magnet
- (iii) behaviour towards carbon disulphide as a solvent
- (iv) effect of heat

3. Perform the following reactions and classify them as physical or chemical changes:

Unit-I

- a) Iron with copper sulphate solution in water
 - b) Burning of magnesium ribbon in air
 - c) Zinc with dilute sulphuric acid
 - d) Heating of copper sulphate crystals
 - e) Sodium sulphate with barium chloride in the form of their solutions in water
4. Preparation of stained temporary mounts of (a) onion peel, (b) human cheek cells & to record observations and draw their labeled diagrams. Unit-II
5. 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. Unit-II
6. Determination of the melting point of ice and the boiling point of water. Unit-I
7. Verification of the Laws of reflection of sound. Unit-III
8. Determination of the density of solid (denser than water) by using a spring balance and a measuring cylinder. Unit-III
9. Establishing the relation between the loss in weight of a solid when fully immersed in Unit-III
- a) Tap water
 - b) Strongly salty water with the weight of water displaced by it by taking at least two different solids.
10. Determination of the speed of a pulse propagated through a stretched string/slinky (helical spring). Unit-III
11. Verification of the law of conservation of mass in a chemical reaction. Unit-II
- 3. Solve the given assignments of various chapters for practice on A4 sheets.**
- 4. Revision of the syllabus till done.**

SOCIAL SCIENCE

Roll No. 1 to 5

- 1. What is the most accurate weather forecast?
- 2. What are the 4 methods of weather forecasting?
- 3. What is the most accurate online weather site?
- 4. How accurate is 7 day weather forecast?
- 5. Is Accuweather better than Google weather?

Roll No. 6 to 10

1. What is the meaning of floating rice?
2. How does the floating rice experiment work?
3. What are the characteristics of deep water rice?
4. What is golden rice also known as?
5. Who created golden rice?

Roll No. 11 to 15

1. What gender differences cause math anxiety?
2. Does gender affect math?
3. What is the major cause of math anxiety?
4. Is math anxiety real or is it imagined?
5. What are the three ways to reduce math anxiety?

Roll No. 16 to 20

1. What is a hydrogarden?
2. Is hydroponics expensive?
3. Are hydroponic vegetables healthy?
4. What is the main disadvantage of hydroponic?
5. Do hydroponic plants taste different?

Roll No. 21 to 27

1. How does a crystal powered radio work?
2. Who made the first crystal radio?
3. How to make crystal radio at home?
4. What are the components of a crystal radio?
5. Do crystal radios require batteries?

AI (Artificial Intelligence)

What is Innovation? What are different types of Innovation? Explain How Incremental Innovations are used in Smartphone Industry? Explain with the help of Video.

ART & CRAFT

1. Draw and paint a cityscape and a landscape in your Drawing notebook.
2. Create a Folk Art Painting, E.G. Mandala Art, Madhubani Art.
3. Make a Craft from best out of waste.

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 _____

1stPage:- Make a colourful & beautiful map of state Manipur.

2ndPage:-

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

3rd page:- Learn and write 5-10 alphabets of Manipuri.

4th page :- History of Haryana and Manipur

5th page :- Culture of Haryana and Manipur

6th page :- Crops grown in Haryana and Manipur

7th page:- Dresses of haryana and manipur.

8th page:- Festival of haryana and manipur.

9th page:- Power generation sources in haryana and manipur

SPECIAL DAYS ACTIVITIES:

➤ 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 15th June.

➤ YOGA DAY ACTIVITY: _____ (To be submitted till 21 June)

Do yoga with your parents and send photos on that day.

