

# SWARNPRASTHA PUBLIC SCHOOL, SONEPAT



## SESSION: 2024-25 HOLIDAY HOMEWORK CLASS 10

*"Learn while you explore, makes for a summer you'll adore!"*



### SUBJECT- ENGLISH

1. Design a poster on the topic " Preserve Nature's Beauty : Stop Illegal Wildlife Trade "
2. Create a scrapbook or a portfolio of any 5 authors whose creations/ writings have inspired you the most. Design a beautiful cover for your scrapbook.
3. Design your own anthology (collection of self-written poems) on the themes:
  - A person who has motivated you
  - A place that you remember for its beauty
  - An incident from your childhood that either made you happy or sad\*Give your anthology a beautiful cover page and a title.
4. Read any 2 novels of your choice and prepare a beautiful book cover of the same book. Also, write a Forward for the books.

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### SUBJECT- HINDI

भारतीय स्वतंत्रता आंदोलन में निम्नलिखित महिलाओं के योगदान को दृष्टिगत रखते हुए उनके बारे में जानकारी प्राप्त करके एक परियोजना कार्य (प्रोजेक्ट) तैयार कीजिए।

(क) सरोजिनी नायडू

(ख) अरुणा आसफ अली

(ग) लक्ष्मी सहगल

(घ) दुर्गा भाभी

अथवा

हमारे यहाँ विष्णु के दस अवतार माने जाते हैं जिसमें राम और कृष्ण प्रमुख हैं। अन्य अवतारों के बारे में जानकारी प्राप्त करके एक परियोजना कार्य (प्रोजेक्ट) तैयार कीजिए।

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### SUBJECT- MATHEMATICS

Maths lab Activities:(Do in maths lab manual)

Refer **Full marks** Lab Manual

**Activity 1-** To draw a graph of a quadratic polynomial and observe:

- (i) The shape of the curve when the coefficient of  $x^2$  is positive.

(ii) The shape of the curve when the coefficient of  $x^2$  is negative.

(iii) Its number of zeroes.

**Activity 2-** To verify the conditions of consistency/ inconsistency for a pair of linear equations in two variables by graphical method.

**Activity 3-** To identify Arithmetic Progressions in some given lists of numbers(patterns).

**Activity 4-** To find the sum of first n natural numbers.

Do Exemplar questions of the syllabus done so far.

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## **SUBJECT- SCIENCE**

### **A. ICPE Project**

Theme: Government of India has taken initiative for the use of recycled plastic in final product as a part of Extended Producer Responsibility (EPR) Policy.

- Highlight the important benefits of this initiative.
- Is there any limitation of application of final product?

You may present your findings in any one of the following formats:

- Audio Visual Clip (Duration 2 minutes, max size 10 MB)
- Power Point Presentation Maximum 5 + 2 Slides within 10 MB (Including title slide and last slide)
- Poster / Artwork A3 size within max 10 MB size (For Hard Copy – A 3 Size Poster Paper)

Kindly upload your ppt/artwork/poster/audio video clip on the following Google form link:

<https://forms.gle/SW12Q3EW4EHWWmTb8>

**B.** Write the following experiments in the science practical file (except the calculations and result part). Please refer to the Comprehensive science lab manual which you have received in your book set for the experiments.

### **Chemistry:**

1. Finding the pH of the following samples by using pH paper/universal indicator: (i) Dilute Hydrochloric Acid (ii) Dilute NaOH solution (iii) Dilute

Ethanoic Acid solution (iv) Lemon juice (v) Water (vi) Dilute Hydrogen Carbonate solution

2. Studying the properties of acids and bases (HCl & NaOH) on the basis of their reaction with: a) Litmus solution (Blue/Red) b) Zinc metal c) Solid sodium carbonate
3. Performing and observing the following reactions and classifying them into:  
A. Combination reaction B. Decomposition reaction C. Displacement reaction D. Double displacement reaction
  - (i) Action of water on quicklime
  - (ii) Action of heat on ferrous sulphate crystals
  - (iii) Iron nails kept in copper sulphate solution
  - (iv) Reaction between sodium sulphate and barium chloride solutions.
4. Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions: i)  $\text{ZnSO}_4(\text{aq})$  ii)  $\text{FeSO}_4(\text{aq})$  iii)  $\text{CuSO}_4(\text{aq})$  iv)  $\text{Al}_2(\text{SO}_4)_3(\text{aq})$   
Arranging Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result.
5. Study of the following properties of acetic acid (ethanoic acid): i) Odour ii) solubility in water iii) effect on litmus iv) reaction with Sodium Hydrogen Carbonate
6. Study of the comparative cleaning capacity of a sample of soap in soft and hard water

### **Physics:**

1. Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plotting a graph between V and I.
2. Determination of the equivalent resistance of two resistors when connected in series and parallel.
3. Determination of the focal length of:
  - i) Concave mirror
  - ii) Convex lens by obtaining the image of a distant object.
4. Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result.
5. Tracing the path of the rays of light through a glass prism.

### **Biology:**

1. Preparing a temporary mount of a leaf peel to show stomata.
2. Experimentally show that carbon dioxide is given out during respiration

3. Studying (a) binary fission in Amoeba, and (b) budding in yeast and Hydra with the help of prepared slides.
4. Identification of the different parts of an embryo of a dicot seed (Pea, gram or red kidney bean)

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### **SUBJECT- SOCIAL SCIENCE**

'Projects' are important for developing analytical skills, problem solving abilities and to develop teamwork and creative thinking.

On the basis of the above information prepare any one project

1. For Roll No. 1 to 15 Social Evil

(for example Poverty, Basic needs, Homelessness, Youth Alcohol Usage, Teen depression and Suicide, Mental health, Inequality, Immigration and Climate change).

2. For Roll no. 16 to 26 Sustainable Development

3. For Roll no. 27 to 37 Consumer's Rights

**NOTE:** The project must contain 20 to 25 pages, including the following pages mentioned below:

- a) Introduction
- b) Index
- c) Certificate
- d) Acknowledgement
- e) Conclusion
- f) Bibliography

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## MINDFULNESS ACTIVITY





## THINK SHEET: **DEVELOPING YOUR VALUES AND BELIEFS**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. Read over the list below and put a check mark next to any words that you would identify as your values.

- |  |  |                                      |                                     |                                       |
|--|--|--------------------------------------|-------------------------------------|---------------------------------------|
| <input type="checkbox"/> Adventure     | <input type="checkbox"/> Courage       | <input type="checkbox"/> Fitness     | <input type="checkbox"/> Integrity  | <input type="checkbox"/> Power        |
| <input type="checkbox"/> Appreciation  | <input type="checkbox"/> Creativity    | <input type="checkbox"/> Forgiveness | <input type="checkbox"/> Joy/Play   | <input type="checkbox"/> Quality      |
| <input type="checkbox"/> Balance       | <input type="checkbox"/> Diversity     | <input type="checkbox"/> Freedom     | <input type="checkbox"/> Justice    | <input type="checkbox"/> Religion     |
| <input type="checkbox"/> Beauty        | <input type="checkbox"/> Efficiency    | <input type="checkbox"/> Friendships | <input type="checkbox"/> Kindness   | <input type="checkbox"/> Respect      |
| <input type="checkbox"/> Career        | <input type="checkbox"/> Encouragement | <input type="checkbox"/> Fun         | <input type="checkbox"/> Knowledge  | <input type="checkbox"/> Self-Respect |
| <input type="checkbox"/> Caring        | <input type="checkbox"/> Endurance     | <input type="checkbox"/> Generosity  | <input type="checkbox"/> Leadership | <input type="checkbox"/> Speed        |
| <input type="checkbox"/> Clarity       | <input type="checkbox"/> Enjoyment     | <input type="checkbox"/> Grace       | <input type="checkbox"/> Learning   | <input type="checkbox"/> Spirituality |
| <input type="checkbox"/> Communication | <input type="checkbox"/> Entertainment | <input type="checkbox"/> Gratitude   | <input type="checkbox"/> Love       | <input type="checkbox"/> Strength     |
| <input type="checkbox"/> Compassion    | <input type="checkbox"/> Excellence    | <input type="checkbox"/> Harmony     | <input type="checkbox"/> Loyalty    | <input type="checkbox"/> Success      |
| <input type="checkbox"/> Connection    | <input type="checkbox"/> Excitement    | <input type="checkbox"/> Home        | <input type="checkbox"/> Openness   | <input type="checkbox"/> Teamwork     |
| <input type="checkbox"/> Contentment   | <input type="checkbox"/> Faith         | <input type="checkbox"/> Honesty     | <input type="checkbox"/> Order      | <input type="checkbox"/> Wealth       |
| <input type="checkbox"/> Contributing  | <input type="checkbox"/> Fame          | <input type="checkbox"/> Humor       | <input type="checkbox"/> Patience   | <input type="checkbox"/> Wellness     |
| <input type="checkbox"/> Cooperation   | <input type="checkbox"/> Family        | <input type="checkbox"/> Innovation  | <input type="checkbox"/> Peace      | <input type="checkbox"/> Wisdom       |

2. Thinking about the values you selected, which 3 would you say are the most important to you?

(A) \_\_\_\_\_

(B) \_\_\_\_\_

(C) \_\_\_\_\_

3. For each of those 3 values, how do you think it became one of your values? Is there someone you know or a famous person you admire who demonstrates that value? If so, who is it and what do they do that shows you that value?

(A) \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(B) \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(C) \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

4. Describe 3 situations where someone's values and beliefs would affect their decision making.

(A) \_\_\_\_\_

\_\_\_\_\_

(B) \_\_\_\_\_

\_\_\_\_\_

(C) \_\_\_\_\_

\_\_\_\_\_

5. If you discover that you have different beliefs or values than a friend or someone else you have a relationship with, how could that affect your relationship?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

6. What are 3 **positive** consequences for developing your values and beliefs?

(A) \_\_\_\_\_

\_\_\_\_\_

(B) \_\_\_\_\_

\_\_\_\_\_

(C) \_\_\_\_\_

\_\_\_\_\_

7. How do you think developing your values and beliefs could help you earn respect from others?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



## THINK SHEET: **SHOWING GRATITUDE**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. There are more ways to show gratitude than saying "Thank you." Write as many examples as you can think of.

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2. Think of someone you're grateful for but you haven't shown it recently. Write what you would say to them. When you see the person, remember to share your gratitude with them.

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3. What's your favorite memory of someone showing gratitude to you? What made it so special?

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4. It's common advice that you will be happier reflecting on what you *do have* instead of focusing all of your attention on what you *don't have*. Do you agree? Why or why not?

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5. Describe 3 situations where it would be appropriate to show gratitude.

(A) \_\_\_\_\_

\_\_\_\_\_

(B) \_\_\_\_\_

\_\_\_\_\_

(C) \_\_\_\_\_

\_\_\_\_\_

6. How might people view you if you don't show gratitude very often when they do nice things for you?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

7. What are 3 **positive** consequences for showing gratitude?

(A) \_\_\_\_\_

\_\_\_\_\_

(B) \_\_\_\_\_

\_\_\_\_\_

(C) \_\_\_\_\_

\_\_\_\_\_

8. How do you think showing gratitude could help you earn respect from others?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

"Art is the silent  
expression of thoughts,  
feelings, and  
experiences."

- Marilyn O



**SWARNPRASTHA PUBLIC SCHOOL, SONEPAT**  
**SECTOR-19, NEAR OMAXE CITY, NH-44, SONEPAT-131021, HARYANA**  
**PH- +91-9812583803, +91-9812583802, 18001800842**  
**[info@swarnprastha.com](mailto:info@swarnprastha.com)/[www.swarnprastha.com](http://www.swarnprastha.com)**