



**LALA KAMLAPAT SINGHANIA
EDUCATION CENTRE**
Jhalrapatan, Jhalawar

HOLIDAY
Homework

Session 2025-2026

Name: _____

Class – *XI SCIENCE*

FOR THE PARENTS



Summer Vacations are here. A few vital suggestions are listed below to make the vacations more exciting and fruitful than ever before:

- ★ Keep at least half an hour a day for sharing experiences with your child.
- ★ Encourage your child to speak in English. Fix one hour in a day when you communicate with your child only in English.
- ★ Tell your child different stories regularly and encourage him to describe what he/she would do in a similar situation. Here are few suggested titles which you can read with your child.
 - a. Hare and the Tortoise
 - b. Emperor's New Clothes
 - c. Thumbelina
- ★ Let your child colour, draw, paint, play with water and sand etc.
- ★ Restrict his or her television watching, confining it to interesting children's programs, cartoon films, Discovery channel etc.
- ★ To improve the formation of letters, make your child write a page every day.
- ★ Develop self-help skills: Let your child dress and feed on his/her own.
- ★ Make him understand the importance of cleaning his room and putting away toys and belongings after use.
- ★ Take your child out for picnics and to other places of his/ her interest. Ask him/her to make a note of all the places he/ she visits and the things he/she sees so that he/she is able to discuss his/her experience in class after the vacation.

Have a nice time!

Dr. Manoj Kumar Singh
Principal

1. SUBJECT – ENGLISH PROJECT

1. OBJECTIVE OF THE PROJECT – CRITICAL ANALYSIS OF THE NOVEL, ‘LORD OF THE FLIES’ BY WILLIAM GOLDING OR ‘THE OLD MAN AND THE SEA’ BY EARNEST HEMINGWAY

Objectives-

- a. The Participant will guide readers through a tour of the Novel, pausing along the way to comment on, analyse, interpret, and explain key incidents, descriptions, dialogue, symbols, the writer’s use of figurative language—any of the elements of literature that are relevant to a sound analysis of this particular work.
- b. Their main goal is to explain how the elements of literature work to elucidate, augment, and develop the theme. The elements of literature are common across genres: a story, a narrative poem, and a play all have a plot and characters. In a Novel, for example, a story, setting and point-of-view might be more important than they are in a poem.
- c. A close reading will be done to raise a question about the text—to open up further investigation, rather than to supply a solution.
- d. To be better readers of Literature, the audience will talk to the visitors about the latest movie versions, communicate their ideas and interpretations of literature through written literary analysis essays.

2. ENGLISH PROJECT Rubrics

- The portfolio of project may include all the points given in each project.
- The project must contain at least 20-25 sheets.
- Use as many pictures/photographs as you require.
- Use sketch pens for headings and coloured pens for content.
- Use A4 size coloured/designer paper sheets for the project and after compiling everything it should be submitted in spiral binding.

Note: The project should be handwritten.

3. Cover Page: Include the project title, school details, and student information.

- a) Contents/Index: Provide a table of contents for easy navigation.
- b) Statement of Purpose/Objectives/Goals: Clearly outline the purpose and objectives of the project.
- c) Introduction: Introduce the topic of the project and its significance.
- d) Project Work (800-1000 words): This section can be divided into sub-topics as needed to cover all aspects of the project. Consider including:- Character analysis- Setting exploration- Symbolism in the novel- Themes analysis- Plot summary and analysis- Historical context- Author study- Comparison with other works- Critical review- Creative project

- e) Conclusion: Summarize the key findings and insights from the project.
- f) Relevant Photographs: Include photographs that capture positive learning experiences related to the project.
- g) List of Resources/Bibliography: Provide a list of all the resources used in the project, including books, articles, websites, and any other references cited.
- h) The project must be done on A4 size paper in a channel file.

N.B:

- **Shades of red, pink and green ink should be avoided.**
- **Any other ink for drafting the project should be visible.**

II. Physics

- 1) Write any twenty dimensions of physical quantities with SI unit on A-4 size colour papers.
- 2) Derive all trigonometry identities.

III. Biology

Short presentation on biological classification (At least with one kingdom)
Instructions:

- 1) Topic must have introduction, needs of classification.
- 2) 2. Information about all the type of classification.
- 3) 3. Complete information about any one kingdom.
- 4) 4. Relevant diagram must be attached with your presentation
- 5) 5. Cover page must be attached

• Mode: PPT/Video.

IV. Chemistry

- I. Explain the laws of chemical combinations with the help of coloured diagram.
- II. What is Mole concept? Explain it with the help of examples
- III. Physical Education –Not Received
- IV. Information Technology-Not received

V. Mathematics: -

Q1. List all the elements of the following sets:

- (i) $A = \{x : x \text{ is an odd natural number less than } 20\}$
- (ii) $B = \{x : x \text{ is an integer, } x^2 \leq 25\}$
- (iii) $C = \{x : x \text{ is a month of a year not having 30 days}\}$
- (iv) $D = \{x : x \text{ is a letter in the word "MISSISSIPPI"}\}$

Q2. Write the following intervals in set-builder form:

- (i) $(-5, 40)$
- (ii) $[2, 39]$
- (iii) $(3, 90]$
- (iv) $[-9, 17)$

Q3. If $A = \{3, 6, 9, 12, 15, 18, 21\}$, $B = \{4, 8, 12, 16, 20\}$,
 $C = \{2, 4, 6, 8, 10, 12, 14, 16\}$, $D = \{5, 10, 15, 20\}$; find

- (i) $A - B$
- (ii) $A - C$
- (iii) $D - C$
- (iv) $C - A$

Q4. If $A = \{4, 6, 7, 12\}$, $B = \{5, 9, 2, 20\}$, $C = \{4, 7, 32, 5\}$ and $D = \{4, 8, 2, 14\}$; find

- (i) $A \cup B$
- (ii) $A \cup C$
- (iii) $B \cap C$
- (iv) $B \cap D$

Q5. If $U = \{10, 11, 12, 13, 14, 15, 16, 17, 18, 19\}$, $A = \{12, 14, 16, 18\}$ and $B = \{12, 13, 15, 17\}$. Verify that

- (i) $(A \cup B)' = A' \cap B'$
- (ii) $(A \cap B)' = A' \cup B'$

Q6. If $A = \{1, 2, 3\}$ and $B = \{2, 4\}$, find $A \times B$, $B \times A$, $A \times A$, $B \times B$, and $(A \times B) \cap (B \times A)$?

Q7. Let $A = \{a, b\}$. List all relations on A and find their number.

VI. Physical Education

30 Days Fitness Challenge

1. Strength training: Daily target 15 to 30 Pushups, For male normal pushups and for female Modified Pushups
2. Speed: For speed daily 5-10 minutes skipping
3. Endurance: For this 3-5 minutes Buprees, Mountain climbing and Harvard step test
4. Flexibility: Asana like Tadasana, Bhujangasana and Many More
5. Coordination: Plate tapping test and Shuttle run

VII. Computer Science

Task-1 Create a poster or chart for the generation of computers.

Task-2 Create a mind map of Computer Memory.

Task-3 Create a presentation of 5-6 sides on any Computer fundamental topic taught in the month of April.