

INTEGRATED PROJECT **SESSION-2020-21** **Project Lay-out**

SUBJECT- SCIENCE

CLASS- X

Project Lay out-Subject wise-Instructions for the Project

Physics

Explain in detail with schematic diagram - "**The domestic electric wiring** " and justify that why parallel connection is more suited rather than the series connection for this purpose.

Instructions: -

1. Project in soft copy or hard copy
2. A PPT of this project also required

CHEMISTRY: PPT + PROJECT FILE

+ Balloon Race (the effect of temperature on the rate of reaction)

BIOLOGY: PPT + PROJECT FILE

1. Does music affect blood pressure?

Or

Surprising mysteries of the human body

What should be the essential elements of your project?

- Ideally, your project should have the following elements:
- **Synopsis** - This is a summary of your idea and should include the purpose of the experiment, procedure used, data, and conclusion
- **Research paper** - A research paper should be prepared and must be available along with the project data book with relevant written material. A research paper helps organize data as well as thoughts. A good paper includes the following sections:
- **Title page:** Centre the project title, and put your name, address and school
- **Aim / Objective:** The introduction sets the stage for your report. The aim includes your hypothesis, an explanation of what prompted your research and what you hoped to achieve.
- **Scientific Principle Involved:** In this section describe the principal involved.
- **Material Used:** List all the items used here this will help you in working out the final cost.

- **Method:** This section describes how you did the study. Describe in detail the methodology used to collect your data or make your observations. Your report should be detailed enough for someone to be able to repeat the experiment. Include photographs or drawings of self-designed equipment. The research work conducted by you may have taken more than a year. In such case, include this year's work only.
- **Discussion:** This is the essence of your paper. The results and conclusions should flow smoothly and logically from your data. Be thorough. This should let the reader know exactly what you did, compare your results with theoretical values, published data and expected results. Include a section of possible errors. How did the data vary between repeated observations of a similar event? How were your results affected by uncontrolled events? What would you do differently if you were to repeat this project? What other experiments should be conducted?
- **Conclusion:** This section describes the findings and conclusion of the project. Briefly summarize your results. Be specific, do not generalize. Never introduce anything in
 - the conclusion that has not been discussed.
- **Further scope of project:** This is a step further; here you describe the future scope of your experiment.
- **Acknowledgement:** You should always give credit to those who assisted you; they may be individuals, educational or research institutions.
- **Reference list:** Your reference list should include any documentation that is not your own (i.e. books, journal articles, include specific internet url's).

PPT+ PROJECT FILE

TOPIC

"Evolution and significance of the symbols associated with India's freedom movement."

+ Essential elements of the project:

- ★ Need for symbols in general and during freedom struggle.
- ★ Evolution of the symbols over a period of time. (Any two symbols out of the flag, a song, and object like the charkha, a khadi, a novel, etc may be selected).
- ★ The impact of symbols on common people during the course of the freedom movement - how and in what occasions were the used.
- ★ How did they help in making of the Indian nation - did they give a sense of Identity?
- ★ What do these symbols mean to you today?
- ★ Design a symbol for 21st century reflecting its nationhood - explain the symbol.

SUBJECT- HINDI

CLASS - X

Project Lay out-Subject wise-Instructions for the Project

निबंध

देश का निर्माण और युवा वर्ग

✚ संकेत बिंदु

- 1 - युवा वर्ग में भटकाव की स्थिति
- 2- युवा वर्ग सही दिशा में जाए तो असम्भव भी संभव हो जाए |
- 3- देश का भविष्य हमारे युवा

SUBJECT-MATHS

CLASS-X

Project-Instructions to carry out the Project

- To prepare a list of quotations on mathematics.
- **Project on Ramanujan number (1729)**
 - a) Why is 1729 a special number?
 - b) How is Ramanujan number calculated?
 - c) What is so unique about Hardy Ramanujan number?
 - d) Find out the story behind Ramanujan Number.
 - e) What are the first three Ramanujan numbers?
 - f) Taxi-Cab Number
- **Application of Geometry in day-to-day life**-Give a survey report with findings from different authentic websites, day to day examples or your own experiences. Illustrate your findings with drawings, pictures and write-ups.

- **Application of Algebra in day-to-day life-** Give a survey report with findings from different authentic websites, day to day examples or your own experiences. Illustrate your findings with drawings, pictures and write-ups.
- **Generation of Pythagorean triplets.**
 - a) Define
 - b) General formula
 - c) Generate three to four triplets

Maths application Activity

To construct a square-root spiral (*MA Note-book*)

SUBJECT- COMPUTER APPLICATION

CLASS- X

Project Lay out-Subject wise-Instructions for the Project

WEBSITE

Create a website depicting Pollution, its types, causes, and various preventive measures to control them. All the web pages should be inter-linked. Include a suggestion form to your website. Refer pg-297 of your book.write the coding on notebook and save it with extension .htm and .html. Take print out of it and Create It Report file.

✚ "A Letter to God" is a story by G.L.Fuentes shows human being's immense faith in God. He/She looks forward for His help whenever he/she is in trouble hoping that God is there to help him/her out of the problem.

Students are required to make a power point presentation of a story by some other writer or their own made up story with the theme

" Faith in God"

They need to present the life history of the writer if it is a story taken from some where else otherwise they need to present their own life history till date if the story is their own.

If the project can't be prepared as a power point any other suitable methods can be utilized or else a soft copy/hard copy can be submitted as and when the school re-opens.