

HOLIDAY'S HOME WORK

CLASS 11 (2016)

Please find your subjects according to the Stream and subject options:

English:

1. Read the book Last Lecture by Randy Pausch
2. Group activity: PowerPoint presentation on King Tutankhamen/ Ailing Planet.
The presentation will be done in the month of July.
3. Read 'The Canterville Ghost'

Physics:

Students are required to do an investigatory project on any topic related to Physics. The investigatory project can be experimental or theoretical.

- Make a hand written/typed presentation on the topic
- The no of pages can be from 10-15 and to be compiled in a folder on A4 sheets.
- It's an individual activity
- It will be assessed and marked in first and second term both as per cbse guide lines.

Last date of submission for Project report and working model (Optional): 8 JULY

Rubric

Content	Scientific Principle	Overall Presentation
5	5	5

Chemistry:

*Revise all the work done in class.

*Students are required to prepare a HAND WRITTEN project report on ANY ONE of the following topics in about 10-15 PAGES and to be compiled in a folder. The report must include index at the start and bibliography in the end:

- 1) Stratospheric pollution – ozone and its effects.
- 2) Green chemistry as an alternate tool for reducing pollution
- 3) Chromatography and its various kinds
- 4) Environmental pollution: (a) Air- tropospheric pollution (b) Water (c) Soil
- 5) Acid rain, green house effect and global warming
- 6) Hydrogen- Position, isotopes, preparation, properties, use
- 7) Water- structure, physical and chemical properties, hard and soft water, heavy water, method of removing hardness.
- 8) Hydrogen peroxide- structure, preparation, physical and chemical properties, storage and use.
- 9) Methods of purification of organic compounds (excluding chromatography)

Suggested Resource Material: NCERT Text book/ Internet

Criteria for evaluation will be:

- (a) Organization of the content (aim, index, content details and bibliography)
- (b) Information and research
- (c) Creativity (pictures, diagrams etc.)
- (d) Overall presentation

How the students have to be assessed:

Topics/Marks	2	1.5	1.0	0.5
Organization of the content (aim, index, content details and bibliography)	Descriptions of scientific terms, facts, concepts, principles, theories and methods are complete and correct	Descriptions of scientific terms, facts, concepts, principles, theories and methods are mostly complete and correct	Descriptions of scientific terms, facts, concepts, principles, theories and methods are somewhat complete and correct	Descriptions of scientific terms, facts, concepts, principles, theories and methods are minimally present /missing and correct
Information and research	Research is thorough, specific, has many examples. All ideas are clearly explained. Preparations, equations, formulae and pros and cons are fully addressed.	Research has many specifics and some examples. Most ideas are explained. Student mostly addresses the preparations, equations, formulae and pros and cons.	Research has some specifics and a couple examples. Few ideas are explained. Student doesn't address all areas: preparation, equations, formulae and pros and cons	Research has little specifics and one example. Very few ideas are explained. Student doesn't address all areas: preparation, equations, formulae and pros and cons.
Creativity (pictures, diagrams etc.)	Text is legible. Graphics and effects are used throughout to enhance presentation. Information consistently supports images.	Presentation is attractive. Text is legible. More than half of the project use graphics and its effect enhance the presentation.	Presentation is legible. Amount of text is too great for the amount of space provided. Less than half the project has graphics.	The project is not very attractive and legible. The amount of text is too great for the space provided. There is little use of graphics.
Overall presentation	The project has exceptionally attractive formatting and well-organized information.	Information is supported by images but sometimes they distract from the text. The project has attractive formatting and well-organized information.	Information supports images at times and has well organized information.	The information does not consistently support images. The project's formatting and organization of material are confusing with the information.
On time submission	On time submission	Delayed by a day	Delayed by two days	Delayed indefinitely.

Biology:

- a) Completion of Biology Practical File.
- b) Completion of the Biology Project

c) Completion of Text Book and Smart Skill questions of the Chapters:

- Living World
- Biological Classification
- Photosynthesis in Higher Plants

d) Attempt Sample Paper strictly under exam conditions.

Maths:

Revise topics done in April and May. Use the weblinks given in the smart skills to revisit the concepts.

C++:

1. Design an algorithm and the corresponding flowchart for finding the sum of the numbers $8, \dots, n$.
2. Using flowcharts, write an algorithm to read 100 numbers and then display the sum.
3. Write an algorithm to read two numbers and then display the larger of the two.
4. Write an algorithm to read two numbers and then display the smaller of the two.
5. Write an algorithm to read three numbers and then display the largest.
6. Write an algorithm to read 100 numbers and then display the largest.
7. What is an algorithm?
8. Explain the need of an algorithm.
9. Write an algorithm to find the average age of a group of 10 players.
10. Explain the steps involved in drawing of a flowchart.
11. Explain uses of a flowchart.
12. Draw a flowchart for the problem of determining prime numbers.

Economics:

As part of your assessment for the final term, a **research paper** has to be submitted on 9th **January 2017**. You may work individually or form a team with a partner. (This means each team has at most two students). You may choose to write a research paper on any one of the topics suggested in the list. The paper must have a title page, main content, and references. The paper should be typed in font size 11 (Book Antiqua) and should be 3-5 pages, excluding tables, diagrams and references. The project should be submitted after spiral binding or putting it in a folder.

Steps involved-

1. Students select a general topic for research and make a list of key words to help search for information, and get an overview of their topic.
2. Students become "research hounds" when they spend as much time as possible finding all the research available. This is probably the most time-consuming part of the research paper. Students refine their research subject and write a statement of purpose on their chosen topic.
3. Students brainstorm questions about their focused topic, begin to create an outline and start thinking about the first draft. They list more key words, identify the best sources to use, begin making note cards, and create a "working" thesis statement.
4. Students write the body of their paper from their outline and notes and then the introduction and conclusion.
5. Students spend time finalizing the citations and completing the Works Cited page.

- Students now must carefully evaluate, revise, and proofread their paper. This is one of the most important parts of the process, and it's also the one that students tend to do too quickly. Once finished with the laborious writing of the research paper, they must go through this part of the process more than once in order to submit their very best work.

It is recommended that the **first three steps must be completed during the summer break** so that there is enough time to prepare and submit a great research paper.

Suggested topics-

- Impact of MGNREGA on rural- urban migration in India
- Improved infrastructure due to construction of Delhi Metro and impact on Delhi's per capita income
- Link between poverty and crime in India
- Correlation between family income and educational attainment
- Link between taxes on tobacco and tobacco related deaths.
- Fertilizer subsidies and agricultural output in India
- Link between growth of IT sector and employment
- Contribution of the IT sector to exports in India
- A study on the banking sector in India as a result of globalization
- Impact of the New Economic Policy (1991) on the Balance of Payments
- Effectiveness of cash transfers versus direct subsidies
- Green revolution and its impact on agricultural output and productivity
- Trends in the dollar- rupee rate and Indian exports since New Economic Policy
- Changes in interest rates in India and inflow of foreign exchange
- Indian government's spending on education and health and GDP growth rate

Please Note-

- Submissions after the deadline will not be accepted.
- Intentional plagiarism will not fetch the student any marks.

The paper will carry 10 marks and will be assessed as follows-

Rubric for Grading the Research Paper

	Outstanding	Good	Fair	Unacceptable
<i>Visual Presentation</i>	Cover page with relevant info, including descriptive title. Section headings. Good graphics, with appropriate citations. Clean and professional looking.	Cover page. Sections headings. Graphics included. Professional looking.	Most relevant information present. Some section headings, captions, or graphics used. Looks like H.S. paper.	Dirty or ragged appearance. Missing titles, captions, headings, name of author. Not professional.
<i>Abstract</i>	Abstract is proper length. Highly informative, complete and easy to understand. Appropriate vocabulary is used. Abstract makes you want to read the paper.	Abstract is proper length. Informative, complete and understandable. Appropriate vocabulary is used.	Abstract is proper length. Somewhat informative and understandable.	Abstract is not the proper length. Not very informative or understandable.
<i>Structure</i>	Thesis is clear, easy to find, and appropriate to the assignment. Thesis is supported by the rest of the paper. Paper contains a "roadmap" for the reader. There is a logical flow to the topics/arguments. Conclusion follows clearly from the arguments presented.	Thesis is clear and appropriate. Thesis fairly well supported. Paper is fairly well organized. Conclusion follows from the rest of the paper.	Thesis is fairly clear. Inconsistent support for thesis. Paper weakly organized. Conclusion is acceptable.	Thesis unclear and/or inappropriate. Thesis not supported. Paper is not organized. Conclusion doesn't follow from the rest of the paper.
<i>Research</i>	The evidence comes from a wide variety of valid sources. The bibliography is complete	The evidence comes from valid sources. The bibliography is	Valid sources are inconsistently used. The bibliography is	The evidence seldom comes from valid sources.

	and reflects appropriate sources. The evidence used reflects multiple views.	complete. The evidence used reflects multiple views.	missing some pieces.	The bibliography is missing significant information.
<i>Thinking</i>	Arguments are pertinent to the topic. Arguments are logical, supported with evidence. The key arguments have been made – no major points have been left out.	Arguments are pertinent to the topic. Arguments are fairly logical and reasonably supported. Most key arguments have been made.	Arguments are not consistently pertinent, logical, or supported. Few key arguments have been made.	Arguments not pertinent. Arguments rarely, if at all, logical and supported. Almost no key arguments have been made.
<i>Interest factor</i>	Language and style appropriate for intended audience. Paper presents well-developed analysis and synthesis. There is nuance, inference and subtlety to the paper. Main points are memorable. Reader is very engaged.	Language and style appropriate. Paper presents reasonable analysis and synthesis. There is a little nuance, inference and subtlety. Main points clear. Reader is engaged.	Language and style only fair. Less-developed analysis and synthesis. Nuance, inference and subtlety lacking. Main points present, not well made.	Language and style poor. Analysis and synthesis lacking. Main points not discernible.

Biotechnology:

- a) Completion of Biotechnology Practical File.
- b) Completion of the Biotechnology Project.
- c) Completion of Text Book and Smart Skill questions of the Chapters/ topic:
 - Introduction to Biotechnology
 - Biomolecules

Psychology:

1. **I-discovery.** Change is often said, is the only constant. This is certainly true for human beings. Think about the many ways in which you have changed over the course of your life. Some of these changes are very obvious and others are less apparent. To study all these changes collect your photographs from infancy till adolescence. Interview your parents/guardians regarding your behaviour, physical development (like when you started walking etc), language development (like when you spoke first words etc), social development (like how and when you made friends etc), emotional development (how you expressed and controlled your emotions etc), cognitive development (like when you started reasoning out , how you learnt etc). Write about your personal views about these stages of life. You can write specific events, experiences or even verbatim or whatever your parents tell you. After adolescence stage collect pictures of others (parents or any other) for other stages and interview them regarding the kind of changes they have gone through and the kind of challenges they face in everyday life.

Life stages :

- Infancy birth to 18 months
 - Early childhood 18 months to 6 years
 - Middle childhood 6 yrs to 12 yrs
 - Adolescence 12 yrs to 20 yrs
 - Young adulthood 20 yrs to 45 yrs
 - Middle adulthood 45 yrs to 60 yrs
 - Late adulthood 60 yrs to death

2. Project :

Select any ten famous psychologists. Stick their pictures on A4 size sheets and prepare a write up based on information about their personal and professional life, highlighting their contribution to the field of psychology.

Sociology:

1. Using the project guidelines given to you, select a topic for your project.
2. Prepare the rough draft of Index, acknowledgement and preface, introduction, statement of purpose and methodology.
3. Apart from this, those who might be using survey method using a questionnaire, have to show the draft of their questionnaire.
4. As per the topic chosen, please start reading up newspapers, magazines, surf the internet for relevant evidence. Once you have identified your evidences, start summarizing them in your words and explain how and why they are relevant for this topic. Draft for this, also, has to be submitted after holidays.
5. Following is a list of suggested readings. Pick any and read them in the context of the themes associated with them. a) Remembered Village by M.N.Srinivas Theme- Idea of village, changing face of a village, external and internal factors of change, micro and macro dimensions of a village b) Palace of Illusions by Chitra Divakaruni Theme-Gender constructs in epics c) Sunlight on a Broken Mountain by Attia Hosain Theme-Religion gender association, independence as a political construct, personal independence, women and their right of action and to make decisions

The book reading will be followed by discussion and they will be associated with sociological phenomena.

Business studies:

Students are required to do the question paper and the project work.
The details are given in the form of hard copy and are shared in the google drive.

Entrepreneurship:

Students are required to do the question paper and the project work.
The details are given in the form of hard copy and are shared in the google drive.

Legal Studies:

I. PROJECT WORK: An in-depth study of the present day judiciary in India. The project should cover the following topics:

1. Introduction
2. Constitutional provisions for courts in India
3. Hierarchy of courts in India
4. How are the Judges appointed to courts in India
5. Names of the present Chief Justices of Supreme Court and High Courts

6. Jurisdiction of various courts in India
7. Judicial activism- How can courts bring about reforms in the society- What has been done and what still needs to be done
8. Substantiate your study with flow charts and diagrams wherever applicable. Restrict your study to about 30 pages.
9. II. Revise Unit 1 of the CBSE Text Book, along with the question bank provided for each chapter.
10. III. Read Unit 3 of the CBSE Text Book.

Substantiate your study with flow charts and diagrams wherever applicable. Restrict your study to about 30 pages.

II. Revise Unit 1 of the CBSE Text Book, along with the question bank provided for each chapter.

III. Read Unit 3 of the CBSE Text Book.

Accounts:

- Q1** Accounting Principles are not static. Information contained in accounting may be manipulated by the accountant. There are several methods of recording the value of unsold stock or charging depreciation etc. by adopting different methods, the position of net profit or assets can be increases or decreased depending on the requirement of the management. It means accounting is subject to window dressing and it fails to depict the true financial position of the enterprise if the accounts were not drawn properly. Identify the vale being violated in the above limitation of accounting. 1
- Q2** Name the liabilities that are payable usually after one year. 1
- Q3** Name the assets held for continuous use in the business and not meant for resale. 1
- Q4** Name the person who owes money to the business enterprise 1
- Q5** "Going Concern" means with the expectation of continuing indefinitely. This concept underlines the assumption that the enterprise has neither any intention nor any necessity to close the business. Identify the values involved in the assumption of going concern. 1
- Q6** State any four advantages of Accounting. 2
- Q7** Give the area of interest for the following users of accounting: 2
- a. Investors
 - b. Employee
 - c. Government
 - d. Lenders
- Q8** Fill in the blanks: 2
- a. Debentures are _____ liability
 - b. Rent received is termed as _____
 - c. A person who owes money to the business enterprise is a _____
 - d. Goods used by the proprietor for personal use are called _____

- Q9** If you are a senior accountant of Vaibhav Enterprises, what steps would you take to make the company's financial statements reliable and understandable? 2
- Q10** Choose the correct answer: 2
- (i) Under Cash basis of accounting, incomes are recorded when:
- Incomes are received
 - Incomes are accrued
 - Expenses are paid
 - All of the above
- (ii) Under accrual basis of accounting, expenses are recorded when:
- Incomes are received
 - Incomes are accrued
 - Expenses are paid
 - Expenses are due
- Q11** "Capital is a liability for the business" Explain the statement with the principle applied. 2
- Q12** "Closing Stock is valued at lower of cost or market price" Which concept of accounting is applied here? Explain the concept. 2
- Q13** Production at a factory had to stop for a week due to labour strike. The owner estimated the loss of production and the likely loss of profit arising out of the situation. He directed the accountant to record the loss in the books of accounts. Is the owner correct in recording the likely loss? Give reasons 2
- Q14** Explain the basic assumptions of accounting, 3
- Q15** "Book keeping is synonymous to Accounting". Analyse the statement by giving reasons 4
- Q16** Fill in the blanks: 4
- The business transactions which can be expressed in _____ units can be recorded in the books of accounts
 - Book keeping is a _____ stage in accounting
 - Accounting information is _____ in nature
 - Suppliers are interested in knowing the _____ of the firm.
- Q17** Differentiate between: 4
- Trade Discount & Cash Discount
 - Revenue & Capital Receipts
- Q18** Differentiate between Cash and Accrual Basis of Accounting 4
- Q19** State True/False for the following statements, correct the incorrect statements: 4
- Business Entity Assumption is not applicable to partnership firms
 - Money measurement assumption distinguishes between the qualitative and quantitative aspect of transactions
 - All transactions that affect the business must be recorded
 - Revenues are matched with expenses according to revenue recognition principle.
- Q20** Lakshita started a business of buying and selling mobile phones and invested Rs. 2,00,000 on 1.4.2015. On 20.4.2015, she paid Rs.1,00,000 for purchase of mobile phones and Rs.50,000 for 6

furniture. On 1.5.2015, she purchased some stationery for Rs.5,000 in cash and sold some mobile phones for Rs.50,000 on credit to Stuti. After, a period of one month, she purchased mobile phones for Rs.60,000 from Jatin. Expenses during the period were 10,000. ON 31.07.2015, mobile phones worth Rs.20,000 were lost by fire. During September, 2015 to December 2015, a part of stock of mobile phones which costing Rs.30,000 was sold for Rs.40,000.

With the help of above information, answer the following questions:

- a. What is the amount of capital invested by Lakshita?
- b. What is the total amount of expenses?
- c. Who is the debtor for the business and what is the amount receivable from him/her?
- d. Who is the creditor for the business and what is the amount payable from him/her?
- e. Give the name and cost of Fixed Assets bought by the business
- f. What is the total value of goods purchased?

History:

Project – Nomadic Empires

Children will be divided into groups and they will make a power point presentation on the Nomadic Empires with focus on

the Mongols in the 13th and 14th centuries

Rise of Chengiz Khan

Silk route with emphasis on the trade between the Orient and the Occident

Mongol campaigns and

their socio-political, military Organisation

Successors of Chengiz Khan with special emphasis on Marco Polo

They will present it in class in July.

The students will be judged on their content, presentation, understanding, and team work. There will be peer evaluation also.

Geography:

Prepare an Evacuation Route for the senior school Building. Keep in mind the following points:

a. The Ramps b. The stairways c. Floors d. Number of classrooms e. Number of students f. Number of special students g. Number of open fields around h. Include the library, Resource room and the Conference room. i. Keep in mind the Staff rooms, Computer rooms and the Activity rooms. j. No stampedes, no bottlenecks, no congestion on stairways.

It is a group activity.

But marks will be given individually on the following rubric:

- Details in the evacuation routes
- Clarity in printing the routes
- Involvement in planning the route
- Easy interpretation of the route
- Conducting a Mock Evacuation Drill.

Political Science:

I. FILE PROJECT

Project Topic : UNITED NATIONS

Project Structure : Minimum 15 page(max 20), plain A4 size sheets (white/colored), Neatly handwritten with relevant illustrations/sketches/articles compiled together in spiral bound file.

Project Content : The research study should be compiled under the following headings:- 1. How did the UNO evolve? 2. What are the functions of UN and its Organs? 3. How has the role of UN changed in the past decade? 4. Analyze UN's contribution to the world in the past 60 years? 5. What has been India's contribution to the UNO? 6. Reforms recommended in the UNO in its process and structure. 7. What 'India specific' reforms do you think UN should initiate?

NOTE: Project preparation allows use of internet sources for content, pictures and logos. It is advised that class XII text book of Political Science (on-line) may be referred to as this topic is an important part of Grade XII curriculum.

II. **EXTRA CURRICULAR ACTIVITIES:** Besides the project, students are advised to read newspapers regularly, watch historical films (esp those based on India's partition), historical documentaries on Nehru, Sardar Vallabh bhai Patel and Smt Indira Gandhi.

Fashion Studies:

- Create a Power Point Presentation on any Indian\ International designer.
- The PPT should include the names of the designer\ label, date of establishment, location, stores where the label is available, participation in shows\ fashion week, significant achievements award and unique characteristics.
- Show the growth of the label through visuals tracing its history since inception to the latest collection.

Home Science:

Objective 1: Visit a day care centre/ crèche/ anganwadi and critically observe the conditions for the children. (Criteria for evaluation is given to students, the process of observation explained; documentation will include analysis, suggestions and conclusion).

Objective 2: Spend a day to observe the special needs and requirements of a child with different abilities. (Observation will be non- participant, factors to observe have been given and their importance explained; documentation will include analysis, suggestions and conclusion).

Fine Arts:

1. 30 Pencil Sketches from life
2. A3 Illustration - With my friends- Flat black and white
3. A3 Illustration- Market Scene- Black and white wash
4. A3 Illustration- My Family at home - Cross hatching