SynA INTERNATIONAL SCHOOL, KATNI
SUMMER ASSIGNMENT (2024-25)
GRADE-XI

Project:How to do

1. Check out various types of Advertisement in Newspaper. Cut 2 Display Advertisement and four different types of Classified Advertisements - 'Situation Vacant', 'For Sale', 'Situation Wanted' 'To Let' and 'Tours and Travel'. Paste them and point out the difference between the Display and Classified Advertisements after analysing them.

Where to do - In English notebooks.

2. Collect some photos of your childhood and prepare a file of your memories with your Grandparents which would revive nostalgic waves in you. Interview your parents about your Grandparents, revive your memories and share your feelings about your relationship with your Grandparents as shared by Khushwant Singh in The Portrait of a Lady.

Use your creativity to prepare an attractive album using an A4 sheet.

HINDI

1. भारतेंदु हरिश्चंद के नाटक 'अंधेर नगरी चौपट राजा' को पढ़कर उसकी समीक्षा लिखिए।
2. कवि नागार्जुन का जीवन परिचय लिखकर उनकी साहित्यिक यात्रा का वर्णन करते हुए 'बादल को घिरते देखा है' कविता की व्याख्या कीजिए।

MATHEMATICS

Instruction-Questions to be done in 100 pages Small TEST COPY.
(1) Which of the following are sets?Justify your answer.
(i) The collection of all the month of a year not beginning with the letter J.
(ii) The collection of ten most talented cricketer of India.

(iii) A team of eleven best students in your school.
(iv) The collection of all boys in your class.
(v) The collection of all prime natural number less than 5000.

2. Let A = {1,2,3}, B = {3,4} and C = {4,5,6}. Find

    (i) A × (B ∩ C)   (ii) (A × B) ∩ (A × C)

    (iii) A × (B ∪ C)   (iv) (A × B) ∪ (A × C)

3. If the set A has 3 elements and the set B = {3, 4, 5}, then find the number of elements in (A×B).
4. Define all type of function with definition and daigram
Maths investigatory Project-(To be done in project File).
(i) Write an article about the discovery of Set theory.
(ii) Write some application of Set theory in the field of Mathematics.

PHYSICS

1. **Prepare a chart of any one Nobel laureate in physics and their accomplishments.**

2. **Prepare a working model based on hydraulic lift.**

CHEMISTRY

Prepare an investigatory project on any of the topic :
1. **stationary model on states of matter using plastic balls and glass boxes.**
2. **prepare a chart on type of chemical reaction with examples and pictures.**

BIOLOGY

Prepare one investigatory as mentioned in the cbse curriculum. Topics are already allotted to each student.

ACCOUNTANCY

Write some of the real life Business transactions of your own business.

COMPUTER SCIENCE

1. Write Python command/instruction/statement to display your name.

2. Write Python command to display your school name, class, and section, separated by "-".

3. Evaluate the following expressions manually:

(i) (2 + 3) ** 3 - 6 / 2

(ii) (2 + 3) * 5//4+(4 + 6)/ 2

(iii) 12 + (3 * 4 – 6) / 3

(iv) 12 + (3 * *4 – 6)// 2

(v) 12 * 3 % 5 + 2 * 6//4

(vi) 12 % 5 *3 +(2*6)//4 4.

Evaluate the above expressions by using IDLE as a calculator and verify the results that you got manually.

4. Identify invalid variable names from the following, give reason for each:

int, total marks, S.I., volume,

tot strength, #tag, tag$, 9a .

5. Find the output of the following code:

(1) x=3

y=x+2 x+=y print(x,y)

(2) x=-2 y=2

x+=y y-=x print(x,y)

(3) a=5

b=2*a a+=a+b b*=a+b print(a,b)

(4) p=10 q=20 p*=q/3 q+=p+q*2 print(p,q)

(5) p=5%2

q=p**4 r=p//q p+=p+q+r r+=p+q+r q-=p+q*r print(p,q,r)

(6) p=21//5

q=p%4 r=p*q p+=p+q-r r*=p-q+r q+=p+q print(p,q,r)

6. Write Python expressions to represent the following situations:

a. Add remainder of 10/7 to the product of 10 and

b. Find the square root of the sum of 8 and 43.

c. Find the sum of the square roots of 8 and 43.

d. Find the integral part of the quotient when 63 is divided by 29.

Visit the website "Code.org" Complete at least two online courses available on the website. Submit the completion certificate of the same

BUSINESS STUDIES

S No	Topics	Subtopics (Choose any One)
1	Project One: Field Visit	Visit to a Handicraft unit. Visit to an Industry. Visit to a Wholesale market (vegetables, fruits, flowers, grains, garments, etc.) Visit to a Departmental store. Visit to a Mall.
3	Project Three: Aids to Trade	History of Insurance Lloyd's contribution. Development of regulatory Mechanism. Insurance Companies in India Principles of Insurance. Types of Insurance

A Pen paper project on Indian Constitution : Topics need to be covered : Interim Govt.,Basic Structure, Assembly members , References of Provisions, Chapters, Articles & Scheduled . Must prepare the cover page , index , certificate and Bibliography.

History

Topics:

1. **Evolutionary aspect of human beings.**
2. **The Legacy of Mesopotamia civilization with special reference town planning, Script and Writing system, Mathematics, Astronomy, Science and their calendar.**
3. **The Roman Empire with special reference to Architecture, government and society.**

Note:- (The above given topic any one need to complete in handwritten form)

a) **The project should be a minimum of 15-20 pages each.**
b) **Use colorful sheets for the work .**
c) **Each one has to prepare a Power point presentation related to their topic.**
d) **You can present role play, drama, songs, bulletin board, poem related to the topic.**
e) **The project should be totally research and survey based.**
f) **The project must be neat and well presented and must be completely handwritten.**
g) **The project should be done on inter leaf A-4 sized sheets.**

PHY. EDUCATION

File:-Any one game (History, Rules, Regulation, Terminology & Tournament)

PAINTING

1) Still Life painting – 2
   Material: Half Size Cartridge paper, Poster Colour

ECONOMICS

Prepare a project on primary sector, secondary sector and tertiary sector. The contribution of these sectors in the economy since Independence.

ENTREPRENEURSHIP

Write about Five Entrepreneurs and their successful entrepreneurial journey.