



Project session-2018-19

Class – IX Science

English Literature :

1- **Reference :** Poem – The Heart of the tree by Henry Cuyler Bunner..

2- **Learning objectives :**

- To stimulate thinking skills in students.
- To develop the ability to express one's thoughts to and opinions in one's own words.

3- **Learning outcomes –**

on completion of the assignment students should be able to :

- Improve their writing skills & vocabulary.
- Have a better understanding of the life and words of Henry Cuyler Bunner.

Methodology (Project) :

- Bring out the functions of trees under the following heads in 100 words each :
 - a) Regeneration in nature
 - b) Concern for the future generation
 - c) Provision of food and shelter

Write biography of biography of Henry Cuyler Bunner. (200 words)

Touch upon the following points

- Life History
- Education
- Important work

Note : Paste relevant pictures wherever necessary.

Evaluation criteria :

Index & Topic	Content	Research	Presentation	Comprehension & vocabulary	Bibliography	Total
2	5	5	4	3	1	20

Project 2 :

1- **Reference** : Drama- The merchant of venice by Shakespeare.

2- Learning objectives

- To enhance the ability of students of expressing their ideas in clear and grammatically correct English
- To develop skills of critical thinking amongst students

3- **Learning outcomes**

On completion of the assignment students should be able to :

- Understand the theme & concept of drama
- Have a better understanding of the characters of the drama

4- **Methodology (Project)**

- Elaborate any three themes of the play. (100 words each)
- Write character sketch of – Portia, Antonio, Bassanio, Shylock, Jessica – (50 words each)

Note : Paste relevant pictures

Evaluation criteria :

Index & Topic	Content	Research	Over all Presentation	Comprehension & vocabulary	Bibliography	Total
2	5	5	4	3	1	20

विषय हिन्दी

प्रकरण-1 हरिशंकर परसाई

उपर्युक्त परियोजना के अन्तर्गत निम्नलिखित बिन्दुओं के समावेशित किया जाएगा।
उद्देश्य- छात्रों को साहित्यकार के जीवन से अवगत कराना तथा निजी जीवन में उनके आदर्शों को अनुसरण करने हेतु प्रेरित करना।

- कवि का जीवन-परिचय- जन्म, जन्म स्थान, पारिवारिक पृष्ठभूमि आदि।
- प्रमुख रचनाएँ, साहित्यिक जीवन का प्रारंभ, प्रमुख रचनाओं के नाम आदि।
- काव्यगत-विशेषताएँ
- भाषा-शैली रचित
- उनके द्वारा (चित कोई एक कविता)
- आवश्यकतानुसार चित्र (कवि, कविता संबंधी)

अंक -निर्धारण

विषय वस्तु	भाषा-शैली	अभिव्यक्ति	शब्दावली	प्रस्तुति	योग
4	4	4	4	4	20

शिक्षण-बोध- साहित्यकारों के जीवन-गाथा से प्रेरित होकर छात्रों में साहित्य के प्रति रुचि जागृत होगी । जिससे वे अपना लक्ष्य निर्धारित कर सकेंगे ।

द्वितीय सत्रावधि परियोजना कार्य :-
हिन्दी भाषा-

श्रवण व भावाभिव्यक्ति कला

- श्रवण कला-पारस्परिक वार्तालाप का एक प्रकरण दिया जाएगा । एक दल में छात्रों की संख्या दो होगी । विचार-विमर्श का अधिकतम दो मिनट तक चयनित विषय के सन्दर्भ में अपना प्रकट करेंगे ।
- 'शान्ति के लिए युद्ध आवश्यक है' वर्तमान में इस पंक्ति के (पक्षयाविपक्ष में तर्क सम्मत मत प्रस्तुत करेंगे ।)

अंक निर्धारण

विषय वस्तु	भावाभिव्यक्ति	संरचना सह संगठन	शब्दावली सह संगठन	शब्दावली मुहावरे	मौलिक नवोद भावन	योग
4	4	4	4	4	4	20

History Project : 1

Topic : The Harappan and the Mesopotamian Civilisation A Comparison.

Aim : The aim of the project is to draw a comparisons between these civilisations in order to find out development in the various fields

Procedure :- The students are expected to prepare a detail project by following the guide lines given :-

- 1- Prepare a content page containing all sub- topics
- 2- Make a comparison between the civilisations on the basis of their sources, extent society, various developments and their decline.
- 3- Pictorial Presentation of the projects is must.

Outcome :- At the completion of the project, students will have vast information about the civilisations and their developments

Marking Scheme

Content	Research	Relevance	Presentation	Total
5	5	5	5	20

Project : 2

Fundamental Duties complements Fundamental Rights

Aim : The aim of this project is to find out how fundamental Duties complement Fundamental rights.

Procedure : The students are required to make a presentation (power point) to show how fundamental Duties go hand in hand with Fundamental rights by giving examples

Marking Schemes :

Content	Relevance	Analysis	Presentation	Total
5	5	5	5	20

Geography :-

Project :- 1

TOPIC : Global environmental issues- an insight

- Students will be required to compile a project report on the following issues pertaining to environment on given lines :-
 - (a) Pollution of water bodies and its impact
 - (b) Global warming as an outcome of greenhouse effect
 - (c) Vast scale deforestation and its, detrimental impact.
 - (d) Increasing vehicular pollution and its” impact
 - (e) Desertification of extensive areas across the globe along with the impact associated
- Along with the causes and detrimental impact associated, students will also suggest measures that are being taken to curb the menace.
- Relevant data, graphics, pictures and illustrations need to be incorporated.
- Project work has to be done in scrap note book available in the school store (as far as possible)

Marking Scheme

Preparation and Organisation	Research	Inference	Skill in presentation	Total
04	06	04	06	20

Project : 2

Topic : Water as an agent of denudation

- Students will reflect of the role of water as the sculptor of earth's surface with its denudational activities/ and depositional work
- Students will focus on the three courses of a river and the Various landforms of denudation formed by it.
 - (a) Upper course – Valleys (V shaped/ I- shaped) waterfalls and rapids.
Cascades, alluvial fans.
 - Middle course – Flood plain, Ox bow lakes, levee ridges, meanders.
 - Lower course – Delta and estuary.
- Relevant data, pictures, illustrations should be incorporated in the project.

Marking Scheme

Preparation and Organisation	Research	Inference	Skill in presentation	Total
04	06	04	06	20

Mathematics :

Project -1

Topic : Mid Point and perpendicular bisector of a line segment

Object : To Find the mid-point of a line segment and **the Perpendicular bisector of a line segment by using paper folding.**

Prerequisite Knowledge

Definition of Mid point and perpendicular bisector.

Mid point – A point which divides the line segment in to two equal parts is known as a midpoint of a line segment

Perpendicular bisector- A line which is perpendicular to the given line segment and divides it in to two equal parts is known as perpendicular bisector of the line segment

Materials Required –

Tracing papers, Geometry box, a pair of scissors :

Procedure – Take a square sheet of tracing paper and draw a line segment PQ of desired length as in the fig.

P _____ Q

2. Fold this sheet along the middle in such a way that point P falls on point Q. as in fig.

P _____ Q

3. Press the paper properly, so that crease is obtained. Unfold the paper and draw dotted line over the crease. Name it A B. M is point of intersection.

M

P _____ Q

Observation : This point M is Mid point of line PQ and crease obtained is perpendicular bisector of PQ

Marking Scheme

Preparation	Presentation	Calculation	Observation	Total
5	5	5	5	20

Project: 2

Objective – Make a power point presentation on development of irrational numbers from their origin (Note: you may write an article also)

Skill required- Knowledge of natural numbers, whole numbers, integers, rational and information numbers.

- Ability to search the net/other reference sources for relevant information
- Ability to make a PPT/write an article

Material Required

- 1- Sheet of paper, Pencil, Colour Pencil etc
- 2- Access to computer, Printer, Scanner, net etc
- 3- Reference Material :

Method : Make an outline (use the guidelines given below)

2- Collect all relevant information/ facts, definitions, historical facts, diagrams, pictures etc.

3. Check if all the information is correct.

4. Put all information in correct order

5. Now make PPT/ Write an article.

Guidelines :

- 1- Contribution of Pythagoras (He is regarded as man who discovered irrational numbers.
- 2- Contribution of Indian mathematician

- 4- Status of number $\sqrt{2}$
- 5- Lambert and Legendre (Proved $\sqrt{2}$ is irrational)

Conclusion :

Students have understood the need of irrational numbers and traced its development

Support required

Text book, Access to library, Internet

Economics : Project 1

Prepare a project report on “for Human capital formation in India” on the basis of following :

- 1- Introduction and meaning of human capital formation
- 2- Advantage and disadvantage of large population
- 3- Role of human capital
- 4- Components of human capital
- 5- Improvement in human capital

Learning objective :

- To create an awareness about the term Human capital.
- To enhance students knowledge about human capital formation process.
- To develop an understanding of importance of education's health in Human capital formation.
- To develop presentation skills

Methodology :

- Discuss the topics related to human capital formation
- Explain the purpose of the assignment
- Encourage students to discuss their Queries
- Explain the evaluation criteria

Learning outcomes :

On completion of the assignment students should be able to :

- Have relevant information about human capital and its importance in economic development.
- Know the various components of human capital formation
- Know the measures used by the government to improve the quality of human capital

Marking scheme

Preparation	Inference	Research	Presentation	Total
5	5	5	5	20

Project- 2

Economics/ Eco-Application

Prepare a project report on “Types of economics “on the basis of following :

1- Classification of economics on the basis of

- Nature
- Ownership of means of production
- Level of development

2- Meaning, features, merits, demerits & solution of :

- Capitalistic Economy
- Socialistic economy
- Mixed economy

Learning objective:

- To develop an understanding towards different types of economics.
- To create an awareness about the system followed by different countries of the world.
- To know the features of different types of economics.

Methodology :

- Discuss the topic of the assignment in class.
- Encourage all students to participate through active question answer session.
- Discuss the criteria of evaluation with students.
- Ask students to list references and sources used.

Learning outcomes : on completing the assignment, the students should be able to :

- Understand the classification of economics on the basis of nature ownership of means of production & level of development.
- Know the types of economics followed in different countries.
- Understand the features merit & demerits of different types of economics

Marking Scheme

Prreparation	Inference	Research	Presentation	Total
5	5	5	5	20

Eco App.

Project 1

Topic : “Multiplication’ of human wants lead to the economic problem of choice.” Prepare project report with the help of a production possibility curve on the basis of following :

- Economic problem
- Causes of economic problem
- Basic Economic problem
- production possibility curve
- Economic growth and economic development

Learning objectives :

- To development a sound base in the subject of economics
- To graphically represent data with the production possibility curve
- To develop the ability to correlate the problem of choice with PPC
- To improve skills in planning and organizing of ideas by developing and concluding the topic

Methodology :

- Discuss the assignment with students
- Encourage discussions through graphic presentations
- Explain the criteria of evaluation
- Enquire about the progress of assignment periodically.

Learning outcomes :

On completions of the assignment students should be able to:

- Understand basic issues of economics and its problems.
- Perceive the concept of unlimited wants and limited resources .
- Identify with the concept of the PPC
- Present their research material in an organized manner

Marking scheme

Preparation	Inference	Research	Presentation	Total
5	5	5	5	20

Home Science

Project : 1

Topic : Family (A unit of Society)

Objectives :

- To make the students learn and understand the concept of family.
- To make the students learn and understand the characteristics, types and functions of family.
- To make the students learn and understand the position of child in a family.

Methodology : Student will be required to prepare a brief paper presentation on.....

- Types of family, characteristics of family, position of child in a family and socialization.
- The students have to prepare a brief note on community and role of family in the development of the child.

Learning outcome : After completion of the project the students should have clear knowledge about the types of family, functions of family and characteristics of a family.

- And a deep knowledge and understanding of role of a family and society in development of a child.

Sources : → Internet

→ Newspaper

→ Library

Marking Scheme

Content	Presentation	Innovation	Research	Total
1	2.5	1	2.5	7

Project -2

Topic : Food and Health

Objective: To make the students understand the importance of food and its function.

- To understand the relationship between food and health
- To learn the concept of ' Balanced Diet.'
- To understand the functions of nutrients, food sources and deficiency diseases.

- To learn the basic food groups and their functions.

Methodology : Students will be required to prepare a brief paper presentation on.....

- Importance of food and its function and explaining the relationship between food and health.
- Food sources, deficiency diseases and functions of nutrients
- A systematic presentation of different basic food groups and their functions.

Learning outcome : After the completion of the project the students should have clear knowledge about the importance and functions of food.

- Functions of nutrients, food sources and deficiency diseases.
- The basic knowledge of balanced diet and relationship between food and health.
- The students should also learn the basic food groups and their function.

Sources : → Internet
 → Newspaper
 → Library

Marking Scheme

Content	Presentation	Innovation	Research	Total
1	2.5	1	2.5	7

Physical Education

DEFINE FOLLOWING BY GRAPH& PICTURE

CRICKET ASSINGMENT

1. cricket history (50 word)
2. latest general rules of cricket
 - a. players
 - (b) substitutes
 - (c) boundaries
 - (d) follow on
 - (e) over
 - (f) batsman getting out
3. Rules Related to twenty-20 match
4. Measurement of playfield and specification of sports equipments
5. Fundamental skills of cricket
 - A. Batting skill
 1. Grip
 - (2) Stance
 - (3) Forward defence stroke
 - (4) Backward defence stroke
 - (5) Cover drive
 - (6) On drive
 - (7) Straight drive
 - (8) Pull

- (9) Hook (10) . Sweep shot

B. Bowling skill

1. Fast bowling- in swing, out swing, off cutter, leg cutter
2. Spin bowling- off break, leg break, top spin, googly

C. Fielding skill

1. Stopping and throwing
2. Catching- high catches, low catches

6. Terminologies related to cricket

- (1) Dolly catch (2) Maiden over (3) Hit wicket
(4) Maiden over (5) Gully (6) Setter
(7) Duck (8) Golden a duck (9) Dead ball
(10) Bouncer (11) Free hit (12) Stricker and non stricker
(13) Hat-trick (14) Seam (15) No ball& its types

SOLVE ALL QUESTIONS

1. Specific Exercises of Warm-up and Conditioning
In cricket game.
2. Explain State the duties of an umpire and referee before start & during a cricket match.
3. Draw a neat cricket ground and indication all correct point of fielding.

Support required

Text book, Access to library, Internet

VOLLEY BALL

DEFINE FOLLOWING BY GRAPH& PICTURE

1. History of volleyball (50 word)
2. Basic general rules of volleyball
 - (a) Playing area
 - (b) Team
 - (c) Scoring
 - (d) Rotation
 - (e) Substitution & its rules
 - (f) Time out
 - (g) The ball
 - (h) Libero
 - (g)
3. Measurement of playfield and specification of sports equipments with net & antenna
4. Fundamental skill of volleyball
 - (a) Service
 - (1) Underhand service
 - (2) Tennis service
 - (3) Spin service
 - (4) Floated service
 - (5) Round arm service
 - (6) Jump service
 - (b) Passing

- (1) Underhand pass (2) Overhand pass
- (c) Spiking and smashing
- (1) Single spike (2)Complex spike
- (d) Blocking
- (1) One men block (2)Two men block (3)Three men block

SOLVED ALL QUESTIONS

- Q1. What is duties of referee, assistance referee and line mans?
- Q2. List & explain any ten faults which a player is likely commit during a game of volleyball.

Support required

Text book, Access to library, Internet

Subject: Commercial studies

Project -1

Topic: Partnership Deed

Learning Objective

- 1. To provide theoretical knowledge about Partnership
- 2. To teach students how a partnership is formed.
- 3. To encourage students how to make a partnership Deed

Learning outcomes :

- 1. Students will understand about partnership.
- 2. They will be able to make partnership Deed .

Methodology :

Students will consider themselves as partners & agree to carry on business for their mutual benefit. This will make partnership Deed mentioning the following details :

- 1. Name of the firm.
- 2. The principal place of business
- 3. The names of other places where the firm carries the business
- 4. The names & addresses of all the partners
- 5. The amount of capital contributed
- 6. The ratio in which profits will be shared.
- 7.

Marks Allocation

Content	Research	Relevance	Overall presentation	Total
5	5	5	5	20

Project : 2**Topic : Functions of Banks****Learning objectives**

- To provide basic understanding of banks
- To make students understand about the basic function of banks
- To provide fundamental knowledge about deposits of bank
- To provide knowledge about the types of banks.

Methodology :

Students will understand the meaning of banks , make a note on the types of banks - Functions of banks , types of bank accounts

Learning Outcomes :

1. Students will be able to understand the meaning & types of banks
2. They will understand the functions performed by bank

Marking scheme

Comment	Research	Relevance	Overall presentation	Total
5	5	5	5	20