



**Maharani Gayatri Devi Girls' School**  
Sawai Ram Singh Road, Jaipur

बहव्यदाशुहेतुिह

**HOLIDAY ASSIGNMENT**  
**CLASS – 10**  
**SESSION -2023-2024**

**Index**

1. English
2. Hindi
3. Sanskrit
4. French
5. Maths
6. Science
7. Social Studies
8. Data Science
9. Multi Media
10. Artificial Intelligence
11. Food Production
12. Financial Management
13. Art Education
14. Vocal Music
15. Sculpture
16. Instrumental Music
17. Kathak
18. Bharatnatyam
19. Western Music



## English

### 1) Questionnaire Making

How to do: Prepare a quiz of 20 questions on-

- Various authors and their books
- Famous quotes and their writers.

Where to do: A-4 size sheet Parameters: Accuracy, Content, Authentication.

### 2) Creation with Proverb

How to do: Describe any one of the following proverbs in your own words. You should also add pictures to make it creative.

- 'The pen is mightier than the sword'
- 'No pain No gain'
- 'All's well that ends well'

Where to do: A-3 size sheet

Parameters: Creativity, relevance, presentation

### 3. Being innovative with values

How to do: Create your own diary in which you will write daily about any one positive change which you wish to bring in yourself like being organized or being punctual etc. Also mention the ways/strategies to achieve your goal.(80-100 words)

(Maintain the diary for 07 days (1 week) minimum.

Where to do: Small handmade diary which should be properly decorated.

Parameters: Creativity, Content, Authentication

NOTE: INSERT ALL THE SHEETS IN A FILE/FOLDER

### 4. The Workbook

Complete Unit 1 and Unit 2 of the English Workbook, Words and Expression.

विषय: - हिंदी

निर्देश -

- सभी प्रश्नों के उत्तर निर्देशानुसार दें ।
- प्रश्न संख्या 2 , 4 , 5 को पोर्टफोलियो में करें ।



- 1 किन्हीं 2 स्वतंत्रता सेनानियों का स्वतंत्रता संघर्ष में संक्षिप्त योगदान लिखिए अथवा किन्हीं 2 स्वतंत्रता सेनानियों के भाषण के प्रमुख अंश / नारे / स्लोगन आदि का चार्ट बनाइए ।  
( A-3 साइज़ शीट पर )

2 हमारी सफलता साझी होती है ,उसके पीछे सिर्फ हमारी मेहनत ही नहीं न जाने कितने लोगों के प्रयास होते हैं ; अपने अनुभव के आधार पर लिखिए । शब्द सीमा ( 150 -200 )

- 3 सुरदास के पदों को पढ़कर गोपियों तथा उद्धव के बातचीत के अंश को संवाद / कॉमिक स्ट्रिप के रूप में लिखिए ।

- 4 हिन्दी भाषा के प्रमुख कवियों, लेखकों, व्याकरण, साहित्यिक रचनाओं से संबंधित प्रश्नोत्तरी तैयार करें । ( सामूहिक गतिविधि )

(प्रश्नोत्तरी की अवधारणा पूर्व सुनिश्चित कर लें )

5 बढ़ते हुए तापमान से त्रस्त समस्त धरतीवासियों की ओर से बादलों को वर्षण हेतु निमंत्रण देते हुए ई-मेल लिखिए ।

नोट :- उपर्युक्त सभी कार्यों में छात्राएँ अपनी सृजनात्मक, कलात्मक एवं रचनात्मक कौशल का परिचय दें ।



निर्देशा: -

- \* छात्राएँ संस्कृत विषय के ग्रीष्मकालीन अवकाश कार्य को पृथक नोटबुक में करें ।
- \* ग्रीष्मकालीन अवकाश कार्य का मूल्यांकन पोर्टफोलियो/नोट बुक के अंतर्गत किया जाएगा ।
- \* कार्य प्रस्तुतिकरण की अन्तिम तिथि 30/6/23 है

1. अभ्यासकार्यस्य प्रत्येकविषयस्य 5 प्रश्नाः करणीयाः ।

2. लेखनस्य स्मरणकार्यस्य च गतिविधिम् आन्तरिकमूल्याङ्कने ग्रहीष्यते ।

(अ) अभ्यासकार्यम् - क - अपठित -अवबोधनम्

ख - पत्रलेखनम्

ग - चित्र वर्णनम्

Elink- [www.studiestoday.com](http://www.studiestoday.com)

(ब) लेखनकार्यम् - सचित्र लघु कथा -

संस्कृत-भाषायां दश वाक्येषु एकां लघु कथां सचित्रं रचयित्वा स्व उत्तर-पुस्तिकायां लिखत ।

(स) पूर्व-पाठितं व्याकरणिक - विषयानाम अभ्यासं कुरुत ।

3. स्मरणकार्यम् - संस्कृतगीतम् ( कस्मिन् एव विषये ) स्मरत ।

E link - [Jayatu\\_sanskritam](http://Jayatu_sanskritam) , [Gaiea\\_sanskrit](http://Gaiea_sanskrit)



## **SUBJECT: FRENCH**

1. To revise “ER, RE, IR, OIR, YER, CER, GER’ Ending verbs and to write them in NB.
2. To revise grammar of class 9 and solve 2 exercises each of them in NB.
3. To complete the letters of lesson 2,3 in NB (Education system of India & France, Writing a motivation letter to your friend for finding a good job)
4. To complete the portfolios given based on lesson number 2,& 3.

## **SUBJECT: MATHEMATICS**

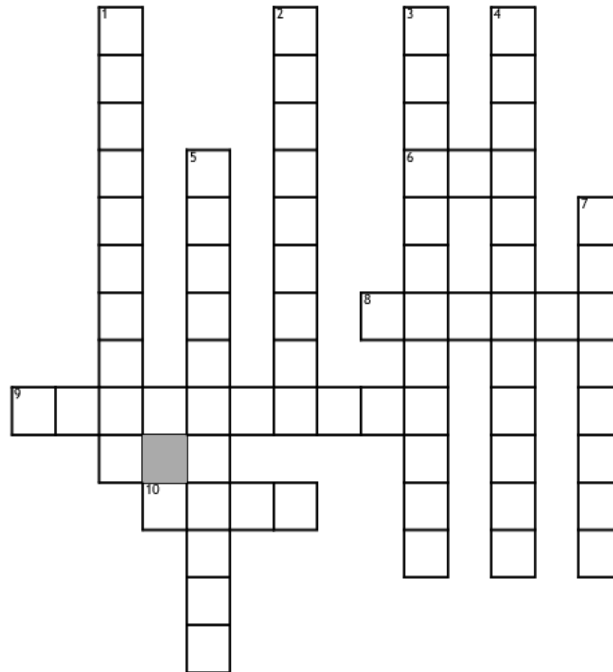
### **GENERAL INSTRUCTIONS:**

- 1) *Do all the questions in A4 Sheets or coloured sheets. Place them in a folder. These can be used as Multiple Assessment/Portfolio.*
- 2) *Please revise all the work done till now.*

**1) TEST YOUR  
MEMORY  
(CROSSWORD)**

A.

# Linear equation in two variables



## Across

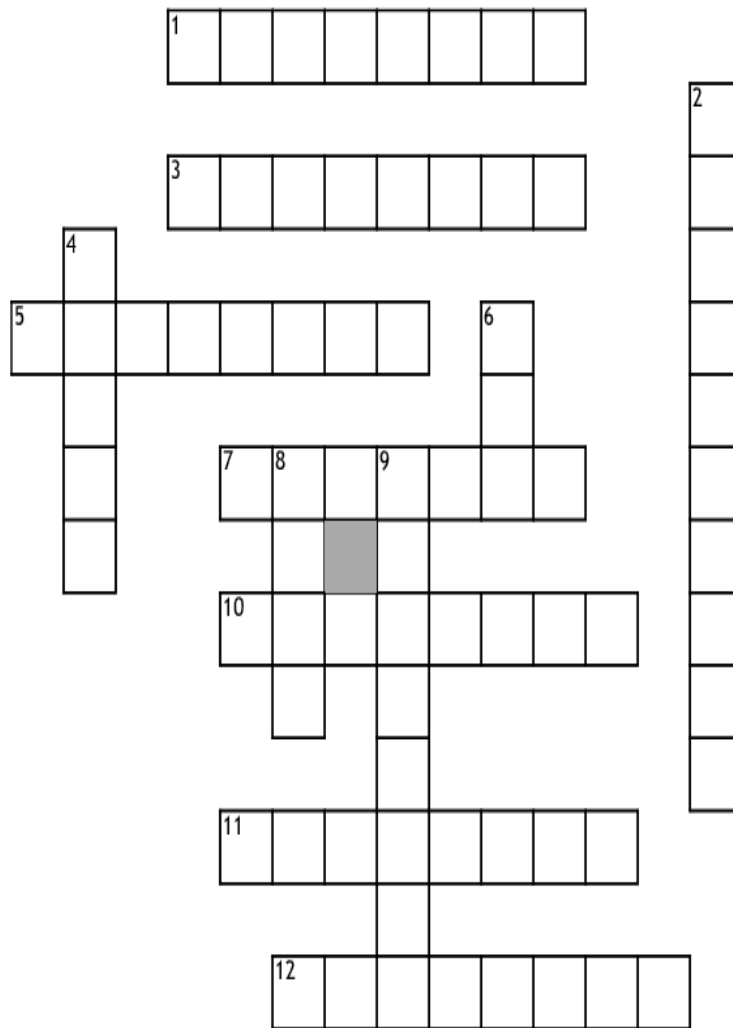
6.  $2x+3y=5$  &  $3x+2y=7$  has solutions
8. Two linear equations in the same two variable are called a pair of equation
9. System of equation having infintely many solution
10.  $3x+2y=6$  &  $6x+4y=12$  has solution

## Down

1. When linear equation have infinitely many solution lines are
2. System of equation having atleast one solution
3. System of equation having no solution
4. When linear equations has a unique solution lines are
5. Pair of linear equation can be represented by
7. When linear equation have no solutions lines are

B

# Linear Equations



## Across

1. the graph of a linear equation in two variable is a \_\_\_\_\_ line.
3. Graph of the equation of the type  $x=a$  is a line parallel to y-axis
5. answer of an equation is also called its \_\_\_\_\_
7. An \_\_\_\_\_ pair of numbers used to represent solution of an equation in two variables
10. Every point on the graph of a linear equation in two variables is a \_\_\_\_\_ of the equation
11. A term whose values keeps changing is called a \_\_\_\_\_.
12. A term whose values do not keep changing is called a \_\_\_\_\_.

## Down

2. A linear equation in two variables has \_\_\_\_\_ many solutions
4. Every solution of the linear equation in two variables represents a \_\_\_\_\_ on the graph of the equation
6. Number of solution an equation of the type  $ax + b=0$
8. Answer of an equation is also callesda
9. A statement of equality is called an \_\_\_\_\_.



## 2. BRAIN STORMING (SUDOKU)

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
|   |   | 4 | 7 | 1 | 9 | 6 |   |   |
|   |   |   |   |   |   |   |   |   |
|   |   | 9 | 3 |   | 5 | 4 |   |   |
| 7 |   | 5 |   |   |   |   | 4 |   |
|   | 9 |   |   |   |   | 7 |   | 1 |
| 4 |   | 6 |   |   |   |   | 8 |   |
| 6 |   | 1 | 2 |   | 7 |   | 9 |   |
| 9 |   | 3 |   |   |   |   | 7 |   |
| 2 |   | 7 | 9 | 8 | 1 |   | 5 |   |

A.

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
|   |   |   |   |   |   | 7 | 2 | 9 |
|   |   |   |   |   | 6 |   |   |   |
|   |   |   | 9 | 8 | 2 | 3 |   |   |
| 5 | 8 | 4 | 2 | 3 | 7 | 9 |   | 6 |

|   |   |   |   |   |   |  |   |  |
|---|---|---|---|---|---|--|---|--|
| 1 |   |   |   |   |   |  |   |  |
| 9 |   | 7 | 6 |   | 5 |  |   |  |
| 2 | 1 |   | 5 |   |   |  |   |  |
|   |   |   | 7 |   |   |  | 9 |  |
| 3 | 7 | 9 | 1 | 6 | 8 |  | 4 |  |
|   |   |   |   |   |   |  |   |  |

### **3. LET'S RECALL (PRACTICE QUESTIONS)**

- Q1. Find the HCF and LCM of 40, 36 and 126 using prime factorisation method.
- Q2. The HCF of two numbers is 23 and their LCM is 1449. If one of the number is 161, find the other.
- Q3. Find the smallest number which when divided by 25, 40 and 60 leaves remainder 7 in each case.
- Q4. If the zeros of the polynomial  $x^2 - 5x + k$  are the reciprocal of each other, then find the value of  $k$ .
- Q5. Find the zeros of the quadratic polynomial  $y^2 + 4\sqrt{3}y - 15$  and verify the relation between zeros and the coefficients.
- Q6. If  $\alpha$  and  $\beta$  are the zeros of the quadratic polynomial  $p(x) = x^2 - 2x + 3$ , then form a quadratic polynomial whose zeros are  $\alpha + 2$  and  $\beta + 2$ .
- Q7. Solve each of the following pair of linear equations:
- |                   |                                    |
|-------------------|------------------------------------|
| a) $7x + 11y = 3$ | b) $\frac{x}{3} + \frac{y}{4} = 6$ |
| $8x + y = 15$     | $\frac{x}{6} + \frac{y}{2} = 6$    |
| c) $3x + 2y = 8$  | d) $5x + 8y = 9$                   |
| $4x - 5y = 3$     | $2x + 3y = 4$                      |
- Q8. Using graphs find whether the pair of linear equations  $3x - 5y = 20$ ,  $6x - 10y + 40 = 0$  is consistent or inconsistent.
- Q9. In each of the following pairs of linear equations determine whether they have a unique solution, no solution or infinite number of solutions. In case there is a unique solution, find it:
- |                  |                 |                 |
|------------------|-----------------|-----------------|
| a) $6x + 5y = 4$ | b) $2x + y = 6$ | c) $x - 2y = 4$ |
| $9x + 7.5y = 6$  | $2x - y = 2$    | $3x - 6y = 19$  |
- Q10. The sum of a number of two digits and the number obtained on interchanging the digits is 99. If 5 is added to the number then it is 4 less than 6 times the sum of the digits. Find the number.



Q11. A fraction becomes  $\frac{1}{2}$  when 1 is subtracted from the numerator and 2 is added to the denominator. It becomes  $\frac{1}{3}$  when 7 is subtracted from the numerator and 2 is subtracted from the denominator. find the fraction.

Q12. Three years ago, the age of a mother was five times the age of her daughter and 2 years hence she will be thrice as old as her daughter will be. Find their present ages.

Q13. In a parking lot parking charges for 15 cars and 7 scooters is Rs. 171 and parking charges for 10 cars and 3 scooters is Rs. 109. Find the parking charges for 2 cars and 1 scooter.

Q14. Find the value of k, for which the roots of the quadratic equation  $kx(3x-4) + 4 = 0$  are equal.

Q15. Find the roots of the following quadratic equation using quadratic formula :

$$2(x+1)^2 - 5(x+1) = 12$$



#### 4. SHOW YOUR CREATIVITY

**Q. Draw the graph of  $x + 3y = 10$  and  $-2x + 5y = 13$ . Use any art form or pattern in the region bounded by these lines and x-axis.**

## Science

### PHYSICS

Activity : Subject enrichment

Complete your practical record of physics as given in the PDF.

Subject teacher will share the content of practical which is to be covered in following headings:

Aim

Material required

Theory

Procedure

Neat Diagram(plain side)

Observation table (plain side)

Precautions

Sources of error

Result

## CHEMISTRY

This is the link address to provide all the sustainable goals

<https://sdgs.un.org/goals/goal4>

Your **Aim** is to choose ANY ONE or amalgamation of all the goals SELECTED from the 17 SDG's and design a science model .

Your model should meet the **learning objectives**:

• To promote the kind of development that minimises environmental problems. To improve the quality of the environment for future generations.

Examples of Sustainable Development

- Wind energy
- Solar energy
- Crop rotation
- Sustainable construction
- Efficient water fixtures
- Green space
- Sustainable forestry
- Turbines that utilize hydro energy.
- Windmills frequently use wind energy.
- With advances in solar cells and related technologies, solar energy is being used more widely.
- Effective and recycled water utilization.
- Sustainable building techniques and green architecture.
- Crop rotation and other related farming practises.
- Upkeep and expansion of environmentally friendly green places.

## OR

Make a working model on any of the topics given below

- 1.Magnetic lines of force
- 2.Microscope
- 3.Telescope
- 4.Human Digestive system
5. Working of Neurons
- 6.Series and parallel electric circuits
- 7 Domestic electric circuit
- 8.Any concept related to Electricity or its applications

The model will be assessed on the following **Rubrics**

- Scientific Relevance
- Creativity
- Following the given Sustainable development goals
- Presentation
- Designing

## BIOLOGY

Make a **MIND MAP /CONCEPT MAP** on any topic from the chapter “**LIFE PROCESSES**”

( MIND MAP/CONCEPT MAP -Mind mapping is simply a diagram used to visually represent or outline information. It is a powerful graphic technique you can use to translate what is in your mind into a visual picture. Since mind mapping works like a brain, it allows you to organize and understand information faster and better)

Read and understand the chapter carefully ,choose any topic, categorize and organize the ideas you have brainstormed and identify their relationships. Use a single page or space and place information and check its connections .Use **COLORS, IMAGES & KEY WORDS** as they aid in enhancing your memory and retention.

For support, you may use link <https://www.mindmeister.com> OR <https://www.entracei.com>

Your work will be judged on the following Rubrics :-

Creativity/Content knowledge/Presentation/Expression/Artifact and this will be part of Portfolio which will be marked for internal assessment.

Take the time to learn how to Mind Map with these seven steps, and use the Mind Map principles

1. Start in the centre of a blank page. Your brain has more freedom to spread out in all directions
2. Use an Image or Picture for your central idea
3. Use Colours
4. Connect Main Branches to the central image
5. Make your lines curved: Straight lines are boring.
6. Use One Key Word per line as single Key Words give your Mind Map more power and flexibility
7. Use Images (wherever possible)

Please note : These are just guidelines ,you may be creative in your presentation!!

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### **Social science project Document.**

For **inter disciplinary project** students to be divided into groups where they have to work individually on preparation of slides on the given topic to each .

Topics are as follows :

1. Trace the history of globalization and point out the shifts within the process.
2. Analyse the implication of globalization on local economies.
3. Examines the importance of transportation for the economic growth and development in India.
4. Analyse the impact of roadways and railways on the national economy. Evaluates the challenges faced by the roadways and railway sector in the country.
5. Discuss how globalization is experienced differently by different social groups.
6. Connect the role of means of transport and communication in the process of globalization.
7. Investigate the factors that facilitated the growth on MNC 's

1 group will have 5-6 slides in which compiler have to prepare an objective and outcome of the ppt .

Students should incorporate different aspects in the project eg. -

1. Research work (interview)
2. Role play
3. Story based presentation
4. Art integration – collage , poster
5. Interactive bulletin board
6. Concept map
7. Gallery work
8. Integration of technology

**FILE WORK :**

Individual projects to be prepared by the every student on –

1. Consumer Rights- type of rights enjoyed by consumers
2. Consumer redressal process
3. Consumer awareness –
  - I. food items
  - II. electronics
  - III. jewellery
4. Consumer awareness through interviews and case study
5. Narmada bachao aandolan and Tehri dam aandolan
6. Swachh Bharat abhiyan
7. Chipko movement
8. Environment movement- Rajendra Singh Waterman of India and Tiloniya village
9. SDG 1, 2
- 10.SDG 3
- 11.SDG 4
- 12.SDG 5
- 13.SDG 6
- 14.SDG 7
- 15.SDG 8
- 16.SDG 9
- 17.SDG 10
- 18.SDG 11
- 19.SDG 12
- 20.SDG 13
- 21.SDG 14
- 22.SDG 15
- 23.SDG 16
- 24.SDG 17

**Compulsory content in the project are :**

- I. Content /index
- II. Learning objective
- III. Introduction to the topic
- IV. Case study (if any)
- 25.Conclusion – innovative ideas generated in the process
- 26.Bibliography
- 27.Questionnaire is must.

## **DATA SCIENCE**

Pg 155 (Think out of the box)

Pg 155 (Applied Project)

Pg 162 (Activity 2.2)

Pg 173 (Applied Project)

### **Multi-Media**

1. Draw neat and clean interface of Autodesk Maya on a chart paper with all the components labeled with their names. (In groups of five students each)
2. What is Feedback? Explain the importance and various types of Feedback.
3. Draw any ten signs used for Visual Communication. Explain what each sign conveys and where did you see it?

### **Artificial Intelligence**

|  |
|--|
| 1. Can you create a Python code to create a list of random integers and then find the maximum and minimum values in the list |
|--|

|   |
|---|
| 2. Create Python program to enter a string and count the number of words in that string |
|---|

|  |
|--|
| 3. Create a python code to make a list of your five close friends and then do the following to it: |
|--|

|                                  |
|----------------------------------|
| - Capitalize all the first names |
|----------------------------------|

|                              |
|------------------------------|
| - Reverse the order of names |
|------------------------------|

|                                   |
|-----------------------------------|
| - Add one more friend to the list |
|-----------------------------------|

|                  |
|------------------|
| - Print the list |
|------------------|

|  |
|--|
| 4. Create a Python code to check whether a given string is a palindrome or not |
|--|

|  |
|--|
| 5. Create a Python code to make a list of your favourite fruits and then remove the fruit that is at the second position on the list and add a vegetable name on it. |
|--|

## **FOOD PRODUCTION**

1. Write recipes for protein rich, fat rich, carbohydrate rich dishes (one each)
2. Make a power point presentation of one recipe each for at least five methods of cooking.
3. Make a chart or power point presentation on various cuts of vegetables and fruits.

### **Introduction to Financial Markets:**

1. Revise Chapters 1, 2 and 3
2. Complete the assigned Project Work as per the guidelines discussed and shared in the Class.

## Holiday Assignment of Art- Art Education

- 'Great masters Work'- make a replica of your favorite Indian Artists painting like Jamini Roy, Amrita Shergill, M.F.Hussain, Nand Lal Bose etc
- It has to be done on A 3 Size ivory Sheet or Canvas (Stretched)  
Medium Poster colours/Acrylic  
Colour the whole surface.

### Subject: Vocal Music

Instructions:

1. In your music notebook write down all these:

- Alankaars 1 to 10
  - Definitions- Alankaar, sangeet, taal
  - Taal- Dadra, kehrwa, teen taal, rupak
  - Prayers- he maa saraswati tumhari vandana karein, jai sharde maa sharde (based on raag yaman)
  - Patriotic Song- nij rashtra ke shareer ke shringaar ke liye, saare jahaan se accha
  - School prayer- I would be true
  - School song- Oh come let's sing of MGD
  - Folk song- any one regional folk song of your choice
  - National song- Vande matram
  - National anthem
2. Learn and practise all songs and prayers.
3. I will check the notebooks once the school reopens.

### Sculpture

May: Holiday Homework- Creative phone cover with clay

June: Holiday HomeWork- Relief work on key holder

### Instrumental Music (Tabla)

- Practice the following "taal" and "palte"

(i) ताल

1. ताल तीनताल

धा धिन धिन धा । धा धिन धिन धा

\* 2

धा तिन तिन ता । ता धिन धिन धा

0 3

2. ताल कहरवा

धा गे ना ती । ना क धी ना

\* 0

3. ताल दादरा

धा धी ना । धा ती ना

\* 0

4. तालरूपक

तीन तीन ना । धिन ना । धिन ना

0            2                    3

5. कायदातीनताल

धा धा तीट । धा धा तिन ना

ता ता तीट । धा धा तिन ना

(ii) पलटे

1. धा धा तीट । धा धा तीट

धा धा तीट । धा धा तिन ना

ता ता तीट । ता ता तीट

धा धा तीट । धा धा तिन ना

2. धा तीट धा । तीट धा धा

धा धा तीट । धा धा तून

ता तीट ता । तीट ता ता

धा धा तीट । धा धा तूना

3. धा धा धा धा । तीट तीट

धा धा तीट । धा धा ती ना

ता ता ता ता । तीट तीट

धा धा तीट । धा धा ती ना

### **KATHAK DANCE**

- Prepare one semi classical dance

### **Bharatanatyam**

- Learn a semi classical dance on any song and record a video of 1-2 minutes.
- Write about the origin of dance in your notebook

## Western Music

1. Prepare a chart showing the importance & impact of music on our society.

\*Revise all prayer songs from the school Diary.

