ENGLISH: Unseen Comprehension; Miscellaneous Grammar; The Lost Child; The Road Not Taken; Kathmandu.

HINDI: गद्य - दो बैलों की कथा

पद्य – कबीर की साखियाँ एवं सबद

व्याकरण – उपसर्ग एवं प्रत्यय

अपठित बोध – अपठित गद्यांश

BENGALI:

গদ্য – ছুটি

পদ্য – খেয়া

ব্যাকরণ – স্বরসন্ধি

নির্মিতি – বোধপরীক্ষন

MATHS:

1	*Number system*	1. *Review of representation of natural numbers, integers, and rational numbers on the number line.* *Rational numbers as recurring/terminating decimals.* *Operations on real numbers.* 2. *Examples of nonrecurring/ non − terminating decimals. Existence of non − rational numbers (irrational numbers) such as,* $\sqrt{2}, \sqrt{3}$ *and their representation on the number line.* *Explaining that every real number is represented by a unique point on the number line and conversely, viz. every point on the number line represents a unique real number.* 3. *Definition of nth root of a real number.* 4. *Rationalization (with precise meaning) of real numbers of the type* $\dfrac{1}{a+b\sqrt{x}}$ *and* $\dfrac{1}{\sqrt{x}+\sqrt{y}}$ *(and their combinations) where x and y are natural number and a and b are integers.* 5. *Recall of laws of exponents with integral powers.* *Rational exponents with positive real bases (to be done by particular cases, allowing learner to arrive at the general laws.)*

2	*Polynomials*	*Definition of a polynomial in one variable, with examples and counter examples.*
		Coefficients of a polynomial, terms of a polynomial and zero polynomial.
		Degree of a polynomial.
		Constant, linear, quadratic and cubic polynomials. Monomials, binomials, trinomials.
		Factors and multiples.
		Zeros of a polynomial.
		Motivate and State the Remainder Theorem with examples.

PHYSICS: Motion Chapter upto Mathematical derivations of equations of motion, numerical (included)

CHEMISTRY: Matter in our surroundings - upto latent heat (evaporation not included).

BILOGY: The Fundamental Units of Life (Till completion of Nucleus)

HISTORY: History..French Revolution till the Role of philosophers

Economics..Village of Palampur..till impact of Green Revolution
D.p....Why Democracy..till Case study of Mexico

GEOGRAPHY: CHAPTER 1 INDIA –SIZE & LOCATION

AI:
Theory + Pract
1. Digital Rights
2. AI Ethics

MUSIC: **HINDUSTANI MUSIC (PERCUSSION INSTRUMENT – TABLA)**

Theory

Definition of the following :

Tala , Laya , Matra , Vibhag , Sam , Tali , Khali , Avartan

Practical

1. Knowledge of basic techniques and bols of Tabla and ability to do combination of syllables.
2. Knowledge of Taal " Dadra" and " Kaharwa".

INDIAN CLASSICAL MUSIC (VOCAL)

THEORY

Definition of the following:
- Shruti
- Swar
- Saptak

PRACTICAL

- Any four Alankar
- National Anthem
- Teental showing in hand

PAINTING: **THEORY:**
- BASIC ELEMENTS OF ART

PRACTICAL:
- PICTURE COMPOSITION/ STUDY WORK

TERM – 1 (2022-23)

Project- Class – IX

Hindustani Classical Music (Vocal) (20 MARKS)

Subject : Music (Mathematical calculation of Rhythm)

Integrated Subject - Mathematics

Learning objective - Learn about the different patterns of rhythm integrated with Mathematics.

Project work:

- Write the definition of Rhythm (2m)
- Draw the structures of different types of rhythm. You must use mathematical fraction ¾,1 ½ , 7/4 etc. This must be done by research and experiment. (Proper calculation of different types rhythm with example must be shown). (12m)
- Give a presentation on, how time calculation is interrelated with musical rhythm. (6m)

Learning Outcome:

- Student will be able to draw a table on talas with different fractions of rhythm.

TERM – 1 (2022-23)

Project Work for Class – IX

Hindustani Music – Percussion Instrument – Tabla (20 MARKS)

Subject : Music (Mathematical calculation of Laya)

Integrated Subject – Mathematics

Learning Objectives :

- To know the concept of Tala which comes from Vedic era text of Hinduism , such as Samaveda
- To know about the roots of tala

Project work:

- Write the definition of Laya (2m)
- Enumerate the different types of Laya (4m)
- Show proper calculation of Laya with examples (4m)
- Explain Tala – Laya – Jati of Hindustani and Carnatic Music (6m)
- Illustrate the system of making different frames of composition (4m)

Learning Outcomes :

The student will know about:

- Indian traditional roots of music
- Concept of musical meter and frame
- Basic idea of framing Laya
- Different Laykari (Variation of Laya) i.e. Duguna laya (2/1), Teenguna laya(3/1) , Kuar laya (5/4) and application in Tala system
- Mathematical calculation
- Knowledge of making different composition Link :
  https://en.m.wikipedia.org/wiki/Tala_(music)

PROJECT

CLASS 9

SUBJECT- Painting (20 marks)

TOPIC: **DIGITAL LITERACY** (Integrated with IT)

Learning objective- Using a new technique for each of the work of poster making and doodle making.

Project:

Make a poster on digital awareness (10m)

Make a coloured doodle using coloured ink pens. (10m)

Do independent research

Do the work individually