



Grade IX (2021-22)
Half Yearly Syllabus

ENGLISH

Reading:

Question based on the following kinds of unseen passages to assess inference, evaluation, vocabulary, analysis and interpretation:

1. Discursive passage (400-450 words)
2. Case based Factual passage (with visual input/ statistical data/ chart etc. 200-250 words)

Writing

1. Descriptive paragraph (Person)
2. Short Story (based on beginning line, outline, cues etc.)

Grammar

1. Tenses
2. Subject-Verb Concord
3. Modals
4. Determiners
5. Reported Speech
6. Commands and Requests
7. Statements
8. Questions

Literature

Questions based on extracts / texts to assess interpretation, inference, extrapolation beyond the text and across the texts.

Moments

- 1. The Lost Child**
- 2. The Adventures of Toto**
- 3. In the Kingdom of Fools**
- 4. The Happy Prince**

Beehive

Prose

- 1. The Fun They Had**
- 2. The Sound of Music**
- 3. The Little Girl**
- 4. A Truly Beautiful Mind**
- 5. My Childhood**

Poems

- 1. The Road Not Taken**
- 2. Wind**
- 3. Rain on the Roof**
- 4. A Legend of the Northland**

MATHEMATICS

UNIT- NUMBER SYSTEMS

Chapter 1: NUMBER SYSTEM

Review of representation of natural numbers, integers, rational numbers on the number line. Rational numbers as recurring/ terminating decimals. Operations on real numbers.

- 1. Examples of non-recurring/non-terminating decimals. Existence of non-rational numbers (irrational numbers) such as , $\sqrt{2}, \sqrt{3}$ and their representation on the number**
- 2. Rationalization (with precise meaning) of real numbers of the type $\frac{1}{a+b\sqrt{x}}$ and $\frac{1}{\sqrt{x}+\sqrt{y}}$ (and their combinations) where x and y are natural number and a and b are integers.**

3. 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.)

UNIT-COORDINATE GEOMETRY

Chapter 3: COORDINATE GEOMETRY

The Cartesian plane, coordinates of a point, names and terms associated with the coordinate plane, notations, plotting points in the plane.

UNIT-ALGEBRA

Chapter 4: LINEAR EQUATIONS IN TWO VARIABLES

Recall of linear equations in one variable. Introduction to the equation in two variables. Focus on linear equations of the type $ax+by+c=0$. Explain that a linear equation in two variables has infinitely many solutions and justify their being written as ordered pairs of real numbers, plotting them and showing that they lie on a line. Graph of linear equations in two variables. Examples, problems from real life with algebraic and graphical solutions being done simultaneously

UNIT-GEOMETRY

Chapter 6: LINES AND ANGLES

1. (Motivate) If a ray stands on a line, then the sum of the two adjacent angles so formed is 180° and the converse.
2. (Prove) If two lines intersect, vertically opposite angles are equal.
3. (Motivate) Results on corresponding angles, alternate angles, interior angles when a transversal intersects two parallel lines.
4. (Motivate) Lines which are parallel to a given line are parallel.
5. (Prove) The sum of the angles of a triangle is 180° .
6. (Motivate) If a side of a triangle is produced, the exterior angle so formed is equal to the sum of the two interior opposite angles.

Chapter 7: TRIANGLES

1. (Motivate) Two triangles are congruent if any two sides and the included angle of one triangle is equal to any two sides and the included angle of the other triangle (SAS Congruence).
2. (Motivate) Two triangles are congruent if any two angles and the included side of one triangle is equal to any two angles and the included side of the other triangle (ASA Congruence).
3. (Motivate) Two triangles are congruent if the three sides of one triangle are equal to three sides of the other triangle (SSS Congruence).
4. (Motivate) Two right triangles are congruent if the hypotenuse and a side of one triangle are equal (respectively) to the hypotenuse and a side of the other triangle. (RHS Congruence)
5. (Prove) The angles opposite to equal sides of a triangle are equal.
6. (Motivate) The sides opposite to equal angles of a triangle are equal.
7. (Motivate) The sides opposite to equal angles of a triangle are equal.

UNIT-MENSURATION

Chapter 12: HERON'S FORMULA

Area of a triangle using Heron's formula (without proof)

UNIT-STATISTICS & PROBABILITY

Chapter 14: STATISTICS

Introduction to Statistics: Collection of data, presentation of data — tabular form, ungrouped / grouped, bar graphs, histograms

SCIENCE

PHYSICS

Chapter 8: MOTION

Chapter 9: FORCE AND LAWS OF MOTION

CHEMISTRY

Chapter 2: IS MATTER AROUND US PURE?

BIOLOGY

Chapter 5: THE FUNDAMENTAL UNIT OF LIFE

Chapter 6: TISSUES

SOCIAL SCIENCE

HISTORY

Chapter 1: The French Revolution

GEOGRAPHY

Chapter 1: India- Size and Location

Chapter 2: Physical Features of India

ECONOMICS

Chapter 1: The Story of Village Palampur

Chapter 2: People as Resource

CIVICS

Chapter 1: What is Democracy? Why Democracy?

Chapter 2: Constitutional Design

HINDI

अर्धवार्षिक परीक्षा पाठक्रम

पाठ्य पुस्तक स्पर्श :

पाठ-2 दुग्ध का अधिकार, पाठ-3 एवरेस्ट : मेरी शिखर यात्रा ,पाठ-9 रैदास
पाठ 10 रहीम के दोहे

व्याकरणः

शब्द और पद, शब्द विचार श्रुतिसमभिन्नार्थ शब्द, विलोम, पर्यायवाची, अर्थ की दृष्टि से
वाक्य भेद , अनुस्वार, अनुनासिक, उपसर्ग, प्रत्यय, अपठित गद्यांश।

PUNJABI

ਛਿਮਾਹੀ ਪ੍ਰੀਖਿਆ ਦਾ ਸਿਲੇਬਸ

ਜਮਾਤ-ਨੌਵੀਂ

ਪਾਠ-ਪੁਸਤਕ :- ਪਾਠ-ਵਹਿਮੀ ਤਾਇਆ, ਪਾਠ-ਮੁੜ ਵੇਖਿਆ ਪਿੰਡ, ਪਾਠ-ਸਮਾਂ,

ਪਾਠ-ਵਿਸਾਖੀ ਦਾ ਮੇਲਾ, ਪਾਠ-ਜਨਮ-ਦਿਨ

ਵਿਆਕਰਨ :- ਸਮਾਸੀ ਸ਼ਬਦ, ਬਹੁਆਰਥਕ ਸ਼ਬਦ, ਮੁਹਾਵਰੇ -ਖ,ਗ, ਅਣਡਿੱਠਾ ਪੈਰੂਾ,ਕਾਵਿ-ਟੁਕੜੀ

COMPUTER APPLICATION

Unit 2: Cyber-safety

- Safely browsing the web and using social networks: identity protection, proper usage of passwords, privacy, confidentiality of information, cyber stalking, reporting cybercrimes
- Safely accessing websites: viruses and malware , adware

Unit 3: Office tools -1

- Introduction to a word processor: create and save a document.
- Edit and format text: text style (B, I, U), font type, font size, text colour, alignment of text. Format paragraphs with line and/or paragraph spacing. Add headers and footers, numbering pages, grammar and spell check utilities, subscript and superscript, insert symbols, use print preview, and print a document.
- Insert pictures, change the page setting, add bullets and numbering, borders and shading, and insert tables – insert/delete rows and columns, merge and split cells.
- Use auto-format, track changes, review comments, use of drawing tools, shapes and mathematical symbols.
- Presentation tool: understand the concept of slide shows, basic elements of a slide, different types of slide layouts, create and save a presentation, and learn about the different views of a slide set – normal view, slide sorter view and hand-outs.