

**ENGLISH**  
**CLASS - IX**

**DISTRIBUTION OF MARKS**

	<b>Out of 80</b>	<b>Internal Marks</b>
(i) Prose	25	
(ii) Poetry	15	
(iii) Rapid Reader	10	
(iv) Grammar & Composition	30	
<b>Total Marks</b>	<b>80</b>	<b>20</b>

**ACTIVITIES FOR INTERNAL ASSESSMENT**

1. Excursions: To a nearby place of interest, such as museums, zoos, institutions for the differently abled, etc. and to write a brief report.
2. Role Playing: Mock Interview of any characters from the lessons prescribed.
3. Review on Books/Movies: On any topic e.g. wars, differently abled persons, sports personalities, patriots etc.
4. Compose poems on any topic.

**MARKING FOR INTERNAL ASSESSMENT**

Listening Skills	5
Speaking Skills	5
Writing Skills	5
Miscellaneous Skills	5
<b>Total</b>	<b>20 Marks</b>

**I. PROSE**

**Pieces to be read:**

1. A Drive in the Motor Car – *Roald Dahl*
2. My Big Brother – *Premchand*
3. A Tiger for Malgudi – *R. K. Narayan*
4. The Yellow Face – *Sir Arthur Conan Doyle*
5. Bees – *Reginald Gamble*
6. The Beggar and the King – *Winthrop Parkhurst*

**II. POETRY**

**Pieces to be read:**

1. The Tide Rises, the Tide Falls – *Henry Wadsworth Longfellow*
2. Nicholas Nye – *Walter De La Mare*
3. Ode to Autumn – *John Keats*
4. The Power of Music – *Sukumar Ray*
5. The Yarn of the 'Nancy Bell' – *W. S. Gilbert*

**III. RAPID READER**  
- **Adventures from Tom Sawyer**

**IV. GRAMMAR & COMPOSITION**

**Contents:**

1. Subject - Verb Concord
2. Reported Speech
3. Transformation of Sentences (Easy Transformation)
  - i) Sentences with adverb 'too'
  - ii) Interchange of degrees of comparison
  - iii) Interchange of affirmative and negative
  - iv) Interrogative into assertive and vice versa
  - v) Interchange of exclamatory and assertive sentences
4. Phrasal Idioms
5. Notice Writing
6. Newspaper report
7. Editing - Errors; Omissions; Short paragraphs
8. Comprehension
9. Essay/Letter Writing

**PRESCRIBED TEXTBOOKS:**

1. **Prose & Poetry**  
- **Reading Circle - IX**  
M/S Oxford University Press, Pragiyotish Apartment (1<sup>st</sup> Floor),  
M. Tayabullah Road, Dighali Pukhuri (East), Guwahati - 781001.
2. **Rapid Reader**  
- **Adventures from Tom Sawyer**  
M/S Macmillan India Ltd., S. C. Goswami Road, Pan Bazar,  
Guwahati - 781001.
3. **Grammar & Composition**  
- **Functional English Grammar & Composition**  
M/S Laxmi Publications Pvt. Ltd., Hemsan Complex, M. D. Shah, Paltan  
Bazar, Guwahati - 781008.

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**ADDITIONAL ENGLISH**  
**CLASS - IX**

**DISTRIBUTION OF MARKS**

	Out of 80	Internal Marks
(i) Prose	22	
(ii) Poetry	16	
(iii) Play	15	
(iv) Composition	19	
(v) Essay	08	
<b>Total Marks</b>	<b>80</b>	<b>20</b>

**MARKING FOR INTERNAL ASSESSMENT**

(i) Listening and Reading: Eg. Audio clips, newspaper reading, poetry reading and review, vocabulary (spelling and pronunciation).	5 marks
(ii) Writing: Eg. Story or picture composition, reports, dialogue writing, autobiography, biography, note making, diary writing, argumentative essays.	10 marks
(iii) Creative Activities/ Assignments: Eg. Advertisements, Quotable quotes, Mock Interview, Slogan Writing, Book review, poster designing, extempore speech, debate, enacting plays, designing greeting cards, public speaking, autograph book, self composed songs or poems.	5 marks

**I. PROSE**

**Pieces to be read:**

1. The Liar - *Mulk Raj Anand*
2. The Night the Bed Fell - *James Thurber*
3. Jenny - *Victor Hugo*
4. The Umbrella Man - *Roald Dahl*
5. Self-made Men - *Stephen Leacock*

**II. POETRY**

**Pieces to be read:**

1. Our Casuarina Tree - *Toru Dutt*
2. From Auguries of Innocence - *William Blake*
3. Strange Meeting - *Wilfred Owen*
4. The Forsaken Merman - *Mathew Arnold*
5. A Satirical Elegy on the Death of a Late Famous General - *Jonathan Swift*

### III. PLAY

- **The Tempest**

### IV. COMPOSITION

#### Contents:

1. One Word Substitution
2. Amplification
3. Substance Writing
4. Paraphrasing
5. Advertisement
6. Picture Composition

### PRESCRIBED TEXTBOOKS:

#### 1. Prose

- **A Miscellany of Short Stories**  
M/S Inter University Press Pvt. Ltd., Educational Publishers, 30/7, Shakti Nagar, New Delhi - 110007.

#### 2. Poetry

- **Wings of Poesy**  
M/S Evergreen Publications, 4779/23, Ansari Road, Darya Ganj, New Delhi - 110002.

#### 3. Play

- **The Tempest**  
M/s Macmillan India Ltd., S. C. Goswami Road, Pan Bazar, Guwahati - 781001.

#### 4. Composition

- **Holy Faith Essential English Grammar & Composition**  
M/s Holy Faith International (P) Ltd., Hem Baruah Road, Pan Bazar, Guwahati - 781001.

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**ASSAMESE (MIL)**  
**CLASS - IX**

**DISTRIBUTION OF MARKS**

Prose	20
Poetry	15
Rapid Reader	15
Grammar	10
Composition	10
Essay	10
<b>Total Marks</b>	<b>80</b>

**MARKING FOR INTERNAL ASSESSMENT**

1. Activities a. Extempore speech/prepared speech b. A Report on a few Harvest Festivals observed in Meghalaya c. Write-up on experience of a journey d. Critical review of any poem from the prescribed lesson	10 marks
2. Prepared Speech: (From Textbook)	5 marks
3. Recitation of Poem: Poem should be selected from the textbook.	5 marks
<b>Total</b>	<b>20 marks</b>

**I. PROSE**

**Pieces to be read:**

1. Anyar prati byabohar – *Satya Nath Borah*
2. Mukti – *Lakshi Nath Bezbarua*
3. Samay – *Nilmoni Phukan*
4. Bharatar baichitra majot aikya – *Dr. Hemanta Kr. Sharma*

**II. POETRY**

**Pieces to be read:**

1. Sisuleela – *Srimanta Sankardeb*
2. Manab Bandana – *Chandra Kumar Agarwala*
3. Prachanda dhulumai Prasna Korile mok – *Dr. Bhupen Hazarika*
4. Mor des – *Hiren Bhattacharya*

**III. RAPID READER**

- **Mur Saisab, Mur Kaisor by Bhobendra Nath Saikia**

#### IV. GRAMMAR

##### Pieces to be read:

Sandhi

Karok

Nattwa Bidhi, Shattwa Bidhi

Pad Prakaran

Nama Dhatu

Samasa (Danda Samasa, Tatpurus Samasa, Karmadharay Samasa)

#### V. COMPOSITION

##### Pieces to be read:

1. Make sentences with Phrases and Idioms
2. Opposite words
3. One word for a group of words
4. Similar words, having different meanings
5. Amplification
6. Letter writing

#### VI. ESSAY WRITING

##### Types of Essay:

Adarsha Mulak

Bhraman Mulak

Jibani Mulak

Barnana Mulak

#### PRESCRIBED TEXTBOOK:

##### 1. Prose and Poetry

- **Sahitya Subah for Class IX & X**

- SEBA.

##### 2. Composition

- a) Rachana Bichitra – *D. S. Deka*
- b) Prabeshika Rachana Shiksha – *G. Sharma*
- c) Assamiya Rachna Shiksha – *Dr. L. Gogoi, Dr. N. Sharma*

##### 3. Grammar

- *Adhunik Assamiya Bhaskar Vyakaran by G. Sharma*  
*Assam State Textbook Production & Publication.*

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**BENGALI (MIL)**  
**CLASS - IX**

**DISTRIBUTION OF MARKS**

Prose	16
Poetry	12
Rapid Reader	12
Grammar	24
Composition	16
<b>Total Marks</b>	<b>80</b>

**MARKING FOR INTERNAL ASSESSMENT**

1. A Project work or assignment	10 marks
2. A viva voce on the home assignment submitted	5 marks
3. A viva voce on any assigned topic	5 marks
<b>Total</b>	<b>20 marks</b>

**I. PROSE**

**Pieces to be read:**

1. Pitrisneha - by *Dwijendralal Roy*
2. Chhuti - by *Rabindranath Tagore*
3. Jagroto Devota - by *Banaphool*

**II. POETRY**

**Pieces to be read:**

1. Dhulamandir - by *Rabindranath Tagore*
2. Kabar - by *Jasimuddin*
3. Manasa Mangal - by *Shaktipada Brahmachari*

**III. RAPID READER**

- **Ramer Sumati** by *Sharatchandra Chhottopadhyay*

**IV. GRAMMAR**

**Pieces to be read:**

1. Shabdo Bandar
2. Uposarga o Anusarga
3. Samas o tar chhoyti prokar bhed
4. Ek kothay prokash
5. Baagdhara
6. Ashuddhi Sansodhan

## V. COMPOSITION

### Pieces to be read:

1. Bhaab Samprasaron
2. Prabandho Rachana

### PRESCRIBED TEXTBOOKS:

1. **Sahitya Sourav - IX**  
- M/S Assam State Textbook Production & Publication Corporation Ltd.,  
Guwahati.
2. **Bani Bichitra** (Class VIII - XII) by *Piyush Dey*

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**GARO (MIL)**  
**CLASS - IX**

**DISTRIBUTION OF MARKS**

Prose	25
Poetry	18
Rapid Reader	10
Grammar	10
Composition	7
Essay/Comprehension	10
<b>Total Marks</b>	<b>80</b>

**MARKING FOR INTERNAL ASSESSMENT**

Writing skills: story writing, picture composition, Life of the poet or author	10 marks
Listening & Reading: Reading, Spelling & Dictations, Phonetics	5 marks
Creativity: Extempore, slogan writing, chart making base on the lesson, Group discussions	5 marks
<b>Total</b>	<b>20 marks</b>

**I. PROSE**

**Pieces to be read:**

1. Capt. Williamson A. Sangma – *Mary Celina A. Sangma*
2. Ta-sek Wari – *John P. Marak*
3. A-chikrangni Kal-susaanirang – *Tharsush K. Sangma*
4. Lindrid D. Shirani Janggi Tangani – *Venibabe N. Sangma*
5. A-chikrangni Ganding Chinding aro Gipin Patanirang – *Llewellyn R. Marak*

**II. POETRY**

**Pieces to be read:**

1. A-chik A-song – *Harendra W. Marak*
2. A-gilsak Dal-begipa Alda Nok – *Jarongpang Rongmuthu*
3. Nokgipani Pattia – *Phoebe W. Momin*
4. A-songtangna Sinte – *Surendra S. Marak*
5. Somoi aro Kam – *Bemfield K. Sangma*

**III. RAPID READER**

- **Veniceni Badinggipa by Mackenson Rongmuthu**

#### IV. GRAMMAR & COMPOSITION

##### **Pieces to be read:**

##### **Sentence aro uni bakrang**

1. Sentence
2. Subject aro Predicate
3. Noun, Pronoun, Verb
4. Subject Noun, Predicate Verb aro Object
5. Talatgipa Kattarang - Adjective, Adverb
6. Preposition, Conjunction aro Interjection
7. Sentenceni Ma-arang

##### **Bak - III**

##### **Kattarang (Ma-arang aro Bimungrang)**

1. Kattarangni Ma-arang
2. Noun: Ma-arang, Person, Number, Gender aro Case
3. Sentenceo Casarangni Kam
4. Pronoun - Ma-arang, Person, Number, Gender aro Case

##### **Bak - IV**

##### **Punctuation aro Punctuation Ka-ani Niamrang**

##### **Recommended Textbook:**

- **A chik Grammar - E. G. Philips**

#### V. A-CHIK COMPOSITION

- **A-chik Composition - K. M. Momin**

##### **PRESCRIBED TEXTBOOKS:**

1. **Prose & Poetry**
  - **Poraiani Ki tap IX**  
- Tura Book Room, Tura, Meghalaya.

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**HINDI (MIL)**  
**CLASS - IX**

**DISTRIBUTION OF MARKS**

Prose	20 marks
Poetry	20 marks
Rapid Reader	15 marks
Grammar	17 marks
Composition	
(a) Essay	08 marks
<b>Total</b>	<b>80 marks</b>

**MARKING FOR INTERNAL ASSESSMENT**

1. Home assignment (Life history of any writer) in own handwriting	07 marks
2. Dictation	04 marks
3. Reading	04 marks
4. Spelling	05 marks
<b>Total</b>	<b>20 marks</b>

**I. PROSE**

**Pieces to be read:**

1. Mantra-Tantra – by Hajari Prasad Dwebedi
2. Pashchatap – by Premchand
3. Dr. Bhim Rao Ambedkar – by Niranjan Kr. Singh
4. Kitna Badla Mera Gaon – by Mansingh Verma
5. Jeeta Kaun – by Satyaprakash Agarwal “Umang”
6. Ganitagya Jyotishi Aryabhata – by Gunakar Mule

**II. POETRY**

**Pieces to be read:**

1. Hamen Sirjan Ki Shakti Dena – by Mansingh Verma
2. Dekho Kitni Pyari Maa – by Ram Gopal Bharatiya
3. Jhansi Ki Rani – by Ramdhari Singh Dinkar
4. Doha-Ekadash – by Kabir Rahim
5. Muktee Ki Aakash – by Sarweshwar Dayal Saxena

**III. RAPID READER**

- Sanchayan (NCERT) Part-I

#### IV. GRAMMAR & COMPOSITION

##### Pieces to be read:

1. Varna-Vichar
2. Vartani
3. Sandhi-Swar Sandhiya
4. Sabdo Ke Bhed
5. Padh Vichar Aur Un Palo Ke Bhed (A)
6. Ling Aur Bachan
7. Karak Aur Ruprachana
8. Samas (A)
9. Upasarga; Pratyay
10. Sabdh Rachana
11. Vakya, Upvakya Aur Unke Bhed
12. Vakya-Parivartan
13. Viramchinha
14. Lokoktiya

##### Composition

1. Patra Lekhan (letter-writing)
2. Nibandh Lekhan (essay) (Hamare Gaon - Sainik Ki Atma Katha)

#### PRESCRIBED TEXTBOOKS:

1. *Deepshika Hindi - Class IX*  
- M/S Arya Publishing Company, 1002-1003, Faiz Road, Karol Bagh, New Delhi - 110005.
2. *Bhasha Vyakaran IX & X*  
- M/S Neeta Prakashan, A-4, Ring Road, South Extension-1, New Delhi - 110049.
3. (i) *Learn Hindi - Learn Khasi* (Dictionary)  
(ii) *Learn Hindi - Learn Garo* (Dictionary)  
- M/S Gewali Publication, Upper Mawprem, Shillong - 2.
4. Rapid Reader - Sanchayan (NCERT) Part-I.

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**KHASI (MIL)**  
**CLASS - IX**

**DISTRIBUTION OF MARKS**

Prose	24 marks
Poetry	14 marks
Rapid Reader	14 marks
Grammar & Composition	28 marks
<b>Total</b>	<b>80 marks</b>

**MARKING FOR INTERNAL ASSESSMENT**

1. Poetry- Text- Ka Duitara Ksiar - <i>U Soso Tham</i> Recitation Individual, poetry writing.	6 marks
2. Prose-Text- (i) Ki Dienjat Jong Ki Longshuwa - <i>Fr. J. Bacchiarello</i> (ii) Ki Phawer U Aesop - <i>Soso Tham</i> (iii) Ki Jingsneng Tymmen-Part I - <i>Radhon Sing Berry</i> Poster Designing, Story writing, Extempore, Elocution, Study Tour, Social Activities on any related topics, One act play.	10 marks
3. Rapid Reader - Text- Na Mihngi Sepngi - <i>Fr. H Elias</i> Take photographs related to topics, Study Tour, Designing Greeting Cards on related topics.	2 marks
4. Grammar And Composition- Text- Hints On The Study Of Khasi Language - <i>D. Nissor Sing Wahlang</i> Paste collection of pictures depicting the different kinds of Pronoun.	2 marks
<b>N.B.:</b> Scrap book on any activities done and cover will add to the weightage of marks.	
<b>TOTAL</b>	<b>20 marks</b>

**I. PROSE**

**Pieces to be read:**

1. Ka Jingiasiatthong
2. Ka Mei Ramew Bad Ki Laiphew Jingthaw
3. Ki Samla Bad Ki Drok

**II. POETRY**

**Pieces to be read:**

1. U Khlur
2. Ki Khun Ka Mariang
3. Ki Saw Aiom
4. U Lok Shisha

**III. KI PHAWER U AESOP**

Lynnong: 31-40

**IV. KI JINGSNENG TYMMEN (PART-I)**

**V. RAPID READER**

**Pieces to be read:**

1. Ka Jingrep Slasha
2. Ka Unibersiti Barim Ka Ri India
3. Ka Jingsngewtynnad Ka Jingpulekot

**VI. GRAMMAR, COMPOSITION & ESSAY**

1. The Pronouns
  - a. The Personal Pronoun
  - b. The Reflexive Pronoun
  - c. The Relative Pronoun  
The Compound Relative Pronoun
  - d. The Interrogative Pronoun
  - e. The Demonstrative Pronoun
  - f. The Indefinite Pronoun
  - g. The Distributive PronounSyntactical Rules on the Pronouns of Different persons
2. Adverbs and words with which they are used.  
From Alphabet 'A' to 'L' - Page 70 to 76
3. Essay
4. Precis Writing

**PRESCRIBED TEXTBOOKS:**

1. **Prose**
  - Ki Dienjat Jong Ki Longshuwa - *J. Bacchiarello*
  - Ki Phawer U Aesop - *Soso Tham*
  - Ki Jingsneng Tymmen (Part-I) - *Radhon Sing Berry*
2. **Poetry**
  - Ka Duitara Ksiar - *Soso Tham*
3. **Rapid Reader**
  - Na Mihngi Sepngi - *H. Elias*
4. **Grammar & Composition**
  - Hints on the Study of Khasi Language - Ri Khasi Publication, Mawkhar, Shillong - 793001.

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**MIZO (MIL)**  
**CLASS - IX**

**DISTRIBUTION OF MARKS**

Hla (Poetry)	20 marks
Thu (Prose)	25 marks
Mizo Grammar	15 marks
Lemchan (Drama)	10 marks
Thawnthu tawi (Rapid Reader)	10 marks
<b>Total</b>	<b>80 marks</b>

**MARKING FOR INTERNAL ASSESSMENT**

1. Writing skill - Project work, home assignment, composition, amplification, story writing.	10 marks
2. Listening and Reading skill - Dictation, Recitation, News reading, extempore debating.	10 marks
<b>Total</b>	<b>20 marks</b>

**I. THU (PROSE)**

**Pieces to be read:**

1. A lem leh a tak - *Vanneihtluanga*
2. Mihring dikna leh chanvo - *Lalhmunmawia*
3. Tlawmngaihna leh aia upa zah - *R. Lalrawna*
4. Huaina - *R. H. Rokunga*
5. Rilru puitling - *H. Ngurthansanga*
6. Incheina - *P. L. Liandinga*
7. Mahni inhneh - *Lalzuia Colney*
8. Sumdawnna - *Lalrochuanga Pachuau*
9. Chhiatni thatni - *Thanpuii pa*
10. Nungchate leh zofate - *B. Lalthangliana*
11. Lungawina - *James Dokhuma*

**II. HLA (POETRY)**

**Pieces to be read:**

1. A saw raltiang tlangah - *Lalmama*
2. Hrinhniang an liamna thlafam khua chu e - *Saihnuna*
3. Ka pian ka seilenna ram - *Rokunga*
4. Kan zoram nuam - *Hranghnuna*
5. Lam ang ka lo let leh ta e - *F. Rokima*
6. Min then lul suh - *Lalzova*
7. Buannel - *R. L. Thanmawia*
8. Sem sem dam dam - *B. Bawlkhuma*
9. Luah loh run - *Zirsangzela Hnamte*

10. Hmangaih lenrual dar ang - *Damhauhva*

**III. MIZO GRAMMAR**

1. Noun
2. Pronoun
3. Chhinchhiahna (Punctuation)
4. Mizo tawng ziah dan (Ziah zawm tur chi te)
5. Tawng Upa

**IV. LEMCHAN (DRAMA)**

Lungrem a chim - *Liansailova*

**V. THAWNTHU TAWI (RAPID READER)**

Pathian Samsuih - *Rev. Zokima*

**PRESCRIBED TEXTBOOK:**

- **Mizo (Pawl Kaw Zirlai Bu) - MBSE Publication**

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**NEPALI (MIL)**  
**CLASS - IX**

**DISTRIBUTION OF MARKS**

Prose	30 marks
Poetry	18 marks
Rapid Reader	10 marks
Grammar & Composition	22 marks
<b>Total</b>	<b>80 marks</b>

**MARKING FOR INTERNAL ASSESSMENT**

1. Reading Recitation, Dictation, Extempore speech, Elocution	05 marks
2. Home assignment - self composed poem or to write the life story of any poet or author	10 marks
3. Project Work - a) To develop the story from the given picture (visual clue) b) Slogan writing c) Chart making on the basis of Lessons (Paste Pictures and Drawings)	05 marks
<b>Total</b>	<b>20 marks</b>

**I. PROSE**

**Pieces to be read:**

1. Bhavishya Nirman
2. Nisha
3. Kartavya
4. Upahaar
5. Hargovind Khurana
6. Gandhi.

**II. POETRY**

**Pieces to be read:**

1. Timi Ujyalo Parkhirahu
2. Aama
3. Jeevan: Ek Drishti
4. Shraddhanjali
5. Kaviprati
6. Mrityu: Kamana Kehi Mera

### III. RAPID READER

- 'Mane' by Subhash Darjeeling

### IV. GRAMMAR & COMPOSITION

#### Pieces to be read:

#### **Part I Descriptive Grammar**

1. Essay Writing (Nibandha Lekhan)
2. Letter Writing (Patra Lekhan)
3. Paragraph Writing (Anuchhed Lekhan)
4. Comprehension (Bodh Pranali)
5. Amplification (Vistritikaran)
6. Precis Writing (Saransa Lekhan or Sanchhepikaran)

#### **Part II Objective Grammar - 15 marks**

1. Linga, Sangya, Sarvanam, Sandhi, Visheshan
2. Kriya, Kaal, Dhatu Ra Pratyay, Vachya
3. Ukhan, Tukka Ra Vakyaansha
4. Viparitarthak Shabda, Sammocharit Shabda, Prayayvachi Shabda, Sar Shabda (one word for many), Chinha Prayog (Punctuation)

### PRESCRIBED TEXTBOOKS:

1. **Prose & Poetry:**
  - **Madhyamik Nepali Sahitya Bhag V**  
*edited by Dr. Tek Narayan Upadhaya*
2. **Rapid Reader**
  - 'Mane' by Subhash, Darjeeling
3. **Grammar & Composition**
  - (i) **Madhyamik Nepali Vyakaran Ra Rachana**  
*Written & Compiled By the Expert Academicians*  
**Published by Shri Raaj Prakashan, Darjeeling**
  - OR
  - (ii) **Vyakaran Saurabh (Chautho Bhaag) (PART - IV)**  
*Written by Vishnu Sharma Adhikari*  
**Published by Puspa Prakashan, Siliguri.**

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**URDU (MIL)**  
**CLASS - IX**

**DISTRIBUTION OF MARKS**

Prose	25 marks
Poetry	15 marks
Grammar	15 marks
Composition	
(a) Essay	10 marks
(b) Letter/Application/ Paragraph Writing	10 marks
(c) Substance Writing	05 marks
<b>Total</b>	<b>80 marks</b>

**MARKING FOR INTERNAL ASSESSMENT**

1. Reading/Recitation: Reading or reciting passages or verses in Urdu from seen or unseen prose or poetry.	04 marks
2. Writing: Writing paragraphs or verses in Urdu on the topics related to literature or science or environment.	04 marks
3. Comprehension: Understanding passages or verses in Urdu from seen or unseen prose or poetry.	04 marks
4. Life-Sketch: Representing a brief Life-Sketch of authors or poets in Urdu on a chart paper whose writings are included in the academic syllabus.	04 marks
5. Extempore Speech/Group Discussion: A short extempore speech or Group discussion on the topics related to literature or science or environment in Urdu.	04 marks
<b>Total</b>	<b>20 marks</b>

**I. PROSE**

**Pieces to be read:**

- a. Guzra Hua Zamana - *Sir Syed Ahmed Khan.*
- b. Haj-E-Akbar - *Munshi Premchand.*
- c. Magar Woh Tut Gai - *Saleha Aabid Hussian.*
- d. Dehat Ki Zindagi - *Abdul Halim Sharar.*
- e. Jeene ka Saliqa - *Khuwaja gulam-Us-Sayadeen.*
- f. Information Technology - *Adara*

**II. POETRY**

**Pieces to be read:**

- a. Muflassi Sab Bahar Khoti Hai - *Wali Mohammad Wali*
- b. Ashk Aankhon Mein Kab Nahin Aata - *Mir Taqui Mir.*
- c. Dard Mannat Kish Dawa Na Hua - *Mirza Ghalib.*

- d. Hum Hein Mataye Koocha-O-Bazar – *Majrooh sultan Puri*.
- e. Taalim Se Be Tawajahi Ka Nateeja – *Altaf Hassain Haali*.
- f. Ek Arzoo – *Mohammad Iqbal*.
- g. Dawat-e-Inqalab – *Wahiduddin Salim*
- h. Arzoo, Shab-e-pur Bahar – *Akhatar Ansari*.
- i. Dastan Shahzade ke Gayeb Hone Ki – *Mir Hasan*.

### III. GRAMMAR & COMPOSITION

#### Pieces to be read:

- a. Reading /Recitation
- b. Words vocabulary
- c. Objective type questions from each lesson. (Refer Text book)  
(Fill in the blanks/True and False Statement/Choose the correct answer/Matching the column)
- d. Paragraph writing on selected topics such as computer, madri jaban urdu, Hamdardi, Baron ka Ehtaram, Majhab-E-Islam
- e. Kind of Nazm
- f. Substance writing
- g. Grammar and compositions
  - (i) Huroof and kinds of huroof
  - (ii) Zamana ki kismein
  - (iii) Synonyms (Muta radif Alfaz)
  - (iv) Antonyms (Mutazad Alfaz)
  - (v) Opposite numbers and genders
  - (vi) Idioms and phrases
  - (vii) Ism Zarf
  - (viii) Letter writing/ Application writing/ Essay writing

### IV. PROJECT WORK (Any two of the following topics may be selected)

- (i) Tourism and Tourists spots in our State
- (ii) Natural Disaster
- (iii) Biography of some prominent Urdu Writer and Poet
- (iv) Air and Water Pollution

#### PRESCRIBED TEXTBOOKS:

1. **Prose & Poetry**  
- **Naway Urdu for Class IX (NCERT)**
2. **Grammar & Composition**  
- **Urdu Grammar Book by NCERT**

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# MATHEMATICS

## CLASS - IX

### DISTRIBUTION OF MARKS

1.	Number System	08 marks
2.	Algebra	20 marks
3.	Co-ordinate Geometry	06 marks
4.	Geometry and Construction	20 marks
5.	Mensuration	16 marks
6.	Statistics and Probability	10 marks
	<b>Total</b>	<b>80 marks</b>

### WEIGHTAGE OF MARKS FOR INTERNAL ASSESSMENT

The Internal Assessment of 20 marks is to be awarded on the basis of the performance of a student in the activity work, project work and continuous assessment as per the following scheme.

- Assessment through test - 10 marks
- Assessment of Project Work - 5 marks
- Assessment of 2 skills - 5 marks.

For its effective implementation, the following aspects of the scheme should be kept in view:

- a. Internal examination is to be conducted at the school level to assess the activity work and project work done by every student during the year.
- b. Each student must perform at least two activities for assessment of any two skills like numerical ability, observation, ability to see patterns, analytical thinking, understanding logic, skills of comparing, interpreting, problem solving, decision making and skills of games.
- c. The assessment may be carried out by a team of two Mathematics teachers including the teacher teaching the particular class

The break-up of 5 marks for assessment of **activity/skills** could be as:-

- |   |  |   |         |
|---|--|---|---------|
| - | Statement of the objective of activity | - | 01 mark |
| - | Design of approach to activity         | - | 01 mark |
| - | Actual conduct of activity             | - | 01 mark |
| - | Procedure explanation                  | - | 01 mark |
| - | Result and conclusion                  | - | 01 mark |

The marks for assessment of two activities (5 + 5) may be added and the average should be calculated out of 5.

The breakup of 5 marks for assessment of **project** could be as:-

-	Identification and statement of the project	-	01 mark
-	Design of the project	-	01 mark
-	Procedure adopted	-	01 mark
-	Write-up of the project	-	01 mark
-	Interpretation of the result	-	01 mark

## UNIT I : NUMBER SYSTEMS

### 1. Real Numbers

Review of representation of natural numbers, integers, rational numbers on the number line. Representation of terminating/non-terminating recurring decimals, on the number line through successive magnification. Rational numbers as recurring/terminating decimals. Operations on real numbers. 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 line, and conversely, viz. every point on the number line represents a unique real number.

Existence of  $\sqrt{x}$  for a given positive real number  $x$  and its representation on the number line with geometric proof. Definition of  $n^{\text{th}}$  root of a real number. 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). 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 numbers and  $a, b$  are integers.

## UNIT II : ALGEBRA

### 1. Polynomials

Definition of a polynomial in one variable, its coefficients, with examples and counter examples, its terms, zero polynomial. Degree of a polynomial; constant, linear, quadratic, cubic polynomials; monomials, binomials, trinomials. Factors and multiples. Zeros of a polynomial/equation. State and motivate the Remainder Theorem with examples and analogy to integers. Statement and proof of the Factor Theorem. Factorization of  $ax^2 + bx + c$ ,  $a \neq 0$  where  $a, b, c$  are real numbers and of cubic polynomials using the Factor Theorem.

Recall of algebraic expressions and identities. Further identities of the type  $(x + y + z)^2 = x^2 + y^2 + z^2 + 2xy + 2yz + 2zx$ ;  $(x \pm y)^3 = x^3 \pm y^3 \pm 3xy(x \pm y)$ ,  $x^3 + y^3 + z^3 - 3xyz = (x + y + z)(x^2 + y^2 + z^2 - xy - yz - zx)$  and their use in factorization of polynomials.

### 2. Linear Equations In Two Variables

Recall of linear equations in one variable. Introduction to equations in two variables. Focus on linear equations of the type  $ax + by + c = 0$ . Prove 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 seem to lie on a line. Graph of

linear equations in two variables. Examples, problems from real life, including, problems on Ratio and Proportion and with algebraic and graphical solutions being done simultaneously.

### UNIT III : COORDINATE GEOMETRY

#### Coordinate Geometry

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

### UNIT IV : GEOMETRY

#### 1. Lines And Angles

- i) (Motivate) If a ray stands on a line, then the sum of the two adjacent angles so formed is  $180^\circ$  and the converse.
- ii) (Prove) If two lines intersect, the vertically opposite angles are equal.
- iii) (Motivate) Results on corresponding angles, alternate angles, interior angles when a transversal intersects two parallel lines.
- iv) (Motivate) Lines, which are parallel to a given line, are parallel.
- v) (Prove) The sum of the angles of a triangle is  $180^\circ$ .
- vi) (Motivate) If a side of a triangle is produced, the exterior angle so formed is equal to the sum of the two interiors opposite angles.

#### 2. Triangles

- i) (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).
- ii) (Prove) 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).
- iii) (Motivate) Two triangles are congruent if the three sides of one triangle are equal to three sides of the other triangle (SSS Congruence).
- iv) (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).
- v) (Prove) The angles opposite to equal sides of a triangle are equal.
- vi) (Motivate) The sides opposite to equal angles of a triangle are equal.
- vii) (Motivate) Triangle inequalities and relation between 'angle and facing side' inequalities in triangles.

#### 3. Quadrilaterals

- i) (Prove) The diagonal divides a parallelogram into two congruent triangles.
- ii) (Motivate) In a parallelogram, opposite sides are equal and conversely.
- iii) (Motivate) In a parallelogram, opposite angles are equal and conversely.
- iv) (Motivate) A quadrilateral is a parallelogram if a pair of its opposite sides is parallel and equal.

- v) (Motivate) In a parallelogram, the diagonals bisect each other and conversely.
- vi) (Motivate) In a triangle, the line segment joining the mid points of any two sides is parallel to the third side and (motivate) its converse.

#### 4. Area

Review concepts of area. Recall area of a triangle.

- i) (Prove) Parallelograms on the same base and between the same parallels have the same area.
- ii) (Motivate) Triangles on the same base and between the same parallels are equal in area.

#### 5. Circles

Through examples, arrive at definitions of circle related concepts, radius, circumference, diameter, chord, arc, subtended angle.

- i) (Prove) Equal chords of a circle subtend equal angles at the centre and (motivate) its converse.
- ii) (Motivate) The perpendicular from the centre of a circle to a chord bisects the chord and conversely, the line drawn through the centre of a circle to bisect a chord is perpendicular to the chord.
- iii) (Motivate) There is one and only one circle passing through three given non-collinear points.
- iv) (Motivate) Equal chords of a circle (or of congruent circles) are equidistant from the centre and conversely.
- v) (Prove) The angle subtended by an arc at the centre is double the angle subtended by it at any point on the remaining part of the circle.
- vi) (Motivate) Angles in the same segment of a circle are equal.
- vii) (Motivate) If a line segment joining two points subtends equal angles at two other points lying on the same side of the line containing the segment, the four points lie on a circle.
- viii) (Motivate) The sum of either pair of opposite angles of a cyclic quadrilateral is  $180^\circ$  and its converse.

#### 6. Constructions

- i) Construction of bisectors of line segments. Construction of angles of  $60^\circ$ ,  $90^\circ$ ,  $45^\circ$  angles etc, equilateral triangles.
- ii) Construction of a triangle given its base, sum/difference of the other two sides and one base angle.
- iii) Construction of a triangle with a given perimeter and base angles.

### UNIT V : MENSURATION

#### 1. Areas

Area of a triangle using Heron's formula (without proof) and its application in finding the area of a quadrilateral.



## 2. Surface Areas And Volumes

Surface areas and volumes of cubes, cuboids, spheres (including hemispheres) and right circular cylinders/cones.

## UNIT VI : STATISTICS & PROBABILITY

### 1. Statistics

Introduction to Statistics: Collection of Data, presentation of tabular form, Ungrouped/grouped data, bar graphs, histograms (with varying base lengths), frequency polygons, qualitative analysis of data to choose the correct form of presentation of the collected data. Mean, median, mode of ungrouped data.

### 2. Probability

History, repeated experiments and observed frequency approach to probability. Focus is on empirical probability (A large amount of time to be devoted to group and to individual activities to motivate the concept; the experiments to be drawn from real-life situations, and from examples used in the chapter on statistics).

### PRESCRIBED TEXTBOOK:

- **Modern abc of Mathematics – IX**  
M/S Modern Publishers Chancellor Commercial, H. B. Road,  
Panbazar, Guwahati – 781001.

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**SCIENCE**  
**CLASS - IX**

**DISTRIBUTION OF MARKS**

Physics	26 marks
Chemistry	26 marks
Biology	28 marks
<b>Total</b>	<b>80 marks</b>

**PHYSICS**

**1. MOTION**

□ Introduction □ How to Describe the Motion of a Body □ Scalar and Vector Quantities □ Meaning of the Terms Distance and Displacement □ Uniform and Non-Uniform Motion □ Speed [Measuring Rate of Change of Motion] □ Velocity [Speed with Direction] □ Acceleration □ Equations of Uniformly Accelerated Motion □ Distance-Time Graphs □ Velocity-Time Graphs □ To Prove Graphically □ Uniform Circular Motion □ Differences between Circular Motion and Linear Motion

**2. FORCE**

□ Introduction □ Force in Our Life □ Effects of Force □ Balanced and Unbalanced Forces □ Newton's Laws of Motion □ Newton's First Law of Motion □ Inertia □ Momentum □ Newton's Second Law of Motion □ Units of Force □ Applications of Newton's Second Law or Impulse of Force □ Newton's Third Law of Motion □ Law of Conservation of Momentum

**3. GRAVITATION**

□ Introduction □ Gravitation □ Newton's Universal Law of Gravitation □ Motion of Falling Objects □ Force of Gravity □ Mass and Weight □ Equations of Motion for Freely Falling Bodies □ Thrust and Pressure □ Upthrust or Buoyant Force □ Floating and Sinking □ Archimedes' Principle □ Density □ Relative Density

**4. WORK AND ENERGY**

□ Introduction □ Work □ Mathematical Expression for Work □ Mathematical Expression for Work Against Acceleration Due to Gravity □ Unit of Work □ Positive, Negative and Zero Work □ Energy □ Units of Energy □ Mechanical Energy □ Potential Energy □ Mathematical Expression for Potential Energy □ Kinetic Energy □ Mathematical Expression for Kinetic Energy □ Law of Conservation of Energy and Energy Transformations □ Law of Conservation of Energy □ A Theoretical Example to Illustrate the Law of Conservation of Energy □ Examples of Transformation of Energy □ Power □ Unit of Power □ Commercial Units of Energy

## 5. SOUND

□ Introduction □ Sound is Produced by Vibrating Bodies □ Propagation of Sound □ Common Terms Associated with Wave Motion □ Characteristics of Sound □ Speed of Sound in Different Media □ Reflection of Sound □ Human Ear

## CHEMISTRY

### 1. THE MATTER IN OUR SURROUNDINGS

□ Introduction □ Particulate Nature of Matter □ Theory of Molecular Structure of Matter or Characteristics of Particulate Nature of Matter □ Physical Classification of Matter □ States of Matter □ Inter-Conversion of States of Matter □ Evaporation

### 2. IS MATTER AROUND US PURE?

□ Introduction □ Pure Substances □ Mixtures □ Solutions □ Saturated and Unsaturated Solutions □ Suspensions □ Colloidal Solutions or Colloids □ Separating the Components of a Mixture □ Physical and Chemical Changes □ Elements □ Compounds

### 3. ATOMS AND MOLECULES

□ Atomic Theory of Matter □ Atom □ Molecule □ Molecular Formula □ How to Write Chemical Formula from the Knowledge of Valency □ Molecular Mass and Formula Unit Mass □ Mass Percentage Composition of an Element in a Compound □ Mole

### 4. STRUCTURE OF ATOM

□ Introduction □ Electrical Nature of Matter □ History of Discovery of Modern Structure of Atom □ Thomson's Atomic Model □ Discovery of Nucleus □ Assumption and Discovery of Neutron □ Bohr's Model of Atom □ Study of Nucleus □ Study of Extra-Nuclear Electrons □ Geometric Representation of Atomic Structure of the First 20 Elements □ Valency □ Isotopes □ Isobars

## BIOLOGY

### 1. CELL - THE FUNDAMENTAL UNIT OF LIFE

□ Cell □ Discovery of the Cell □ Unicellular and Multicellular Organisms □ Cell-shape and Size □ Cell Structure (Structural Organisation of a Cell) □ Cell Organelles □ Diffusion and Osmosis □ Endocytosis □ Exocytosis

### 2. TISSUES

□ Introduction □ Plant Tissues □ Animal Tissues

### 3. DIVERSITY IN LIVING ORGANISMS

□ Classification □ Classification and Evolution □ Nomenclature □ Classification of Organisms □ Kingdom Animalia

#### 4. WHY DO WE FALL ILL?

□ Health □ Disease □ Types of Diseases □ Manifestations of Disease □ Acute and Chronic Diseases □ Causes of Diseases □ Transmission of Diseases – Means of Spread □ Principles of Treatment □ Principles of Prevention

#### 5. NATURAL RESOURCES

□ Natural Resources □ Types of Natural Resources □ Air : The Breath of Life □ Water : A Wonder Liquid □ Soil □ Biogeochemical Cycles

#### 6. IMPROVEMENT IN FOOD RESOURCES

□ Development of Agriculture □ Crop Production □ Crop Variety Improvement – Higher Yield Through Genetic Manipulation □ Animal Husbandry □ Poultry Farming □ Fish Farming □ Bee Keeping

### PRACTICAL

**Total – 20 marks**

Every student will perform at least fifteen experiments (at least five experiments from each unit) during the academic year.

#### PHYSICS

1. To determine the density of a solid (denser than water) by using a spring balance and a measuring cylinder.
2. To study the variation in time period of a simple pendulum with length and to plot L - T graph.
3. To determine the value of acceleration due to gravity by simple pendulum.
4. To verify Archimedes' Principle.
5. To determine the boiling point of water and melting point of Ice.
6. To measure the temperature of hot water as it cools and plot a temperature-time graph.
7. To determine the velocity of a pulse propagated through a stretched string/slinky.

#### BIOLOGY

1. To study the main parts of compound microscope.
2. To make a temporary stained mount of onion peel under a microscope.
3. To study major groups of plants (Thallophyta, Bryophyta, Pteridophyta, Gymnosperms and Angiosperms) and their salient features.
4. Study of major groups of animals (non-chordates and chordates) and their salient features.
5. To study the life cycle of mosquito.
6. Collect articles in the local newspaper regarding health information.

#### CHEMISTRY

1. To prepare a solution of common salt/sugar of a given percentage composition of mass.
2. To prepare a colloidal solution of sulphur and differentiate it from  
(i) true solution and

- (ii) suspension, on the basis of transparency and filtration criterion respectively.
3. To differentiate between a mixture (containing two components) and pure compounds.
  4. To carry out the following chemical reactions and record the observations
    - (i) Iron nail with copper sulphate solution in water.
    - (ii) Zinc with sulphuric acid.
    - (iii) sodium sulphate with barium chloride in the form of their aqueous solutions.
  5. To distinguish between saturated and un-saturated organic compounds.
  6. To prepare carbon dioxide gas and study its two physical and two chemical properties.
  7. To study the sublimation of iodine or camphor or  $\text{NH}_4\text{Cl}$  or Naphthalene.
  8. To study the interconversion of three different states of water and to show that they are the three states of the same substance.
  9. To separate the constituents of mixture of two substances (anyone):
    - (i) Iron and sand
    - (ii) Iodine and sand
    - (iii) Sand and salt or sugar
    - (iv) Salt and water
    - (v) Sugar and water
  10. To prepare one homogeneous and one heterogeneous mixture (preferably one liquid) and distinguish them on the basis of atleast one common property of such solution like
    - (i) Colour
    - (ii) Filtration
    - (iii) Settling

#### **PRESCRIBED TEXTBOOKS:**

1. **Core Science - IX**  
- M/S Goyal Brothers Prakashan, D-231-232, Sector-63, Noida - 201301 (UP).
2. **Practical Science - IX**  
- M/S Laxmi Publications Pvt. Ltd., Hemsan Complex, M. D. Shah Road, Paltan Bazar, Guwahati - 781008.

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**SOCIAL STUDIES**  
**CLASS - IX**

**THE SCHEME OF ASSESSMENT FOR THEORY EXAMINATION.**

One Paper,	Theory Examination = 80 marks	Pass marks = 24
	Internal Assessment = 20 marks	Pass marks = 6
	(for regular candidates)	

**DISTRIBUTION OF MARKS**

Unit	Parts/Sections	Theory
Section I	History	23
Section II	Civics	17
Section III	Economics	17
Section IV	Geography (Including map works and Disaster Management)	23
<b>Total</b>		<b>80</b>

**WEIGHTAGE OF MARKS FOR INTERNAL ASSESSMENT**

<i>Each subject segment carries the following weightage of marks for Internal Assessment:</i>	
i) History	5 marks
ii) Civics	5 marks
iii) Economics	5 marks
iv) Geography + Disaster Management	5 marks
<b>Total</b>	<b>20 marks</b>

These marks can be internally assessed through any one of the following:

- i. Project Work
- ii. Written Tests
- iii. Assignments (Class or Home Work)

**Different types of Project Work:**

- Class/Interclass discussions and debates
- Preparations of a report based on newspapers/magazines clippings
- Conducting a survey in the locality (activity to be accompanied by a brief report)
- Posters
- Mock drills to deal with fire mishaps, earthquakes, flood and landslides to be practiced for the topic, 'Disaster Management.'

## SECTION I: HISTORY

### Unit I: Events and Processes

1. The French Revolution (1789-1799)
2. Socialism in Europe and the Russian Revolution

### Unit II: Livelihoods, Economies and Societies

3. Forest Society and Colonialism
4. Peasants and Farmers

### Unit III: Freedom Fighters of Meghalaya

5. Freedom Fighters and Prominent Personalities of Meghalaya
  6. **Part I:** Investment
  - Part II:** Financial Sector Reforms and Insurance
  7. Source of Funds
- } only for classroom transaction and Internal Assessment.

## SECTION II: GEOGRAPHY

1. Major Relief Features of the Earth
2. Tides and Ocean Currents
3. India - Size and Location
4. Physical Features of India
5. Drainage
6. Climate
7. Natural Vegetation and Wildlife
8. Natural Disasters
9. Survival Skills

## SECTION III: CIVICS

1. Democracy in the Contemporary World
  2. Democracy in India
  3. Electoral Politics in India
  4. Institutions of Parliamentary Democracy
  5. Citizens' Rights in Democracy
  6. The Rights of Persons with Disabilities Act, 2016
  7. Swachh Bharat Abhiyan
  8. PAN Card and Aadhaar Card
  9. **Part I:** Grievance Redressal Mechanism in Insurance
  - Part II:** Credit Cards and Debit Cards
- } only for classroom transaction and Internal Assessment

## SECTION IV: ECONOMICS

1. Factors of Production
2. People as a Resource
3. Poverty as a Challenge
4. Food Security in India
5. Demonetization of Currency

6. **Part I:** RBI – Central Bank  
**Part II:** Budgeting
7. **Part I:** Banks and Loans  
**Part II:** Inflation
- } only for classroom transaction and  
Internal Assessment

**PRESCRIBED TEXTBOOKS:**

**Core Social Science – IX**

- M/S Goyal Brothers Prakashan, D-231-232, Sector-63,  
Noida – 201301 (UP)

*Note: Schools may choose their own topics for Internal Assessment.*

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**HEALTH & PHYSICAL EDUCATION**  
**CLASS - IX**

<b>Theory</b>	-	<b>80 Marks</b>
<b>Internal Assessment</b>	-	<b>20 Marks</b>
<b>Total</b>	=	<b>100 Marks</b>

**WEIGHTAGE OF MARKS FOR INTERNAL ASSESSMENT**

The Internal Assessment will be done through tests, assignments and project work. The breakup of 20 marks for the Internal Assessment may be as follows:

Part - 1	-	Written tests	-	10 marks
Part - 2	-	Assignments	-	5 marks
Part - 3	-	Project Works	-	5 marks

The Internal Assessment of 20 marks is to be awarded on the basis of the performance of a student in the activity work, project work and assessment on the assignments given at the end of each lesson of the textbook.

The break-up of 5 marks for Assignments could be as:-

-	Statement of the skills/activity	-	01 mark
-	Elaboration of the skills/activity	-	01 mark
-	Procedure of explanation	-	01 mark
-	Actual conduct of activity	-	01 mark
-	Conclusion	-	01 mark

The marks for assessment of two activities (5+5) may be added and the average should be calculated out of 5

The break-up of 5 marks for assessment of project could be as:-

-	Identification and statement of the project	-	01 mark
-	Design of the project	-	01 mark
-	Procedure adopted	-	01 mark
-	Write-up of the project	-	01 mark
-	Interpretation of the result	-	01 mark

To implement them successfully, the following aspects of the scheme should be kept in view:-

- (a) Internal Examination is to be conducted at the school level to assess the activity and project work done by each student.

- (b) Each student is required to choose at least two activities during the year.
- (c) Assessment may be carried out by a team of two teachers including the teacher teaching this particular subject.

*NOTE: Schools may choose their own topics for Internal Assessment.*

**Units to be read**

**Unit I      Health Hazards of Modern Age**

- 1. Health Hazards of Modern Age

**Unit II      Growth and Development**

- 1. Nature and General Principles of Growth and Development
- 2. Characteristics of Boys and Girls during Adolescence

**Unit III     Food and Nutrition**

- 1. Factors Affecting Nutritional Status of an Individual
- 2. Nutritional Status
- 3. Balanced Diet for Adolescent Boys and Girls
- 4. Malnutrition and its Effects

**Unit IV     Communicable Diseases**

- 1. General Knowledge about Communicable Diseases and Diseases Spread through Air
- 2. Diseases Spread Through Water and Food
- 3. Diseases Spread Through Insects and Animals
- 4. Diseases Spread by Close Contacts and (spread) by Soil

**Unit V      Safety**

- 1. Safety
- 2. First Aid
- 3. Care of the Sick at Home

**PRESCRIBED TEXTBOOK:**

- **Health (A Textbook for Secondary School Class IX)**  
M/S Frank Brothers & Co. Ltd., 136, Moti Lal Nehru Road, Opp. Pan Bazar  
Girls' Hr. Sec. School, Guwahati - 781001.

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**COMPUTER SCIENCE**  
**CLASS - IX**

**DISTRIBUTION OF MARKS**

Sl. No.	Chapter	Theory Mark	Practical Mark
1	Computer System	8	-
2	Computer Software	8	-
3	Operating System and Windows	10	4
4	Communication Technology	10	-
5	Content Technology	8	-
6	Programming in C	14	8
7	Visual Basic	14	8
8	Societal Impacts of IT - I	8	-
	<b>Total Mark</b>	<b>80</b>	<b>20</b>

**PIECES TO BE READ:**

1. Computer System
  - Characteristics of a computer
  - Functional components of a computer
  - Input unit
  - Central Processing Unit
  - Memory unit
  - Storage devices
  - Output unit
  - Types of computer
  - Applications of computer
  
2. Computer Software
  - Types of software
  - System software
  - Operating system
  - Language translators
  - Utilities
  - Application software
  
3. Operating System and Windows
  - Basic concepts of OS
  - Functions of OS
  - Popular Operating Systems
  - Basic Commands in Operating Systems
  - Desktop

- Windows Explorer
- Files and Folders
- Windows Accessories
- Paint
- Notepad
- WordPad
- Mobile operating system

4. Communication Technology

- Advantages of a Network
- Topology
- Linear Bus Topology
- Star Topology
- Ring Topology
- Tree Topology
- Types of Network
- Networking Technology
- Wired Technology
- Wireless Technology
- Internet
- World Wide Web

5. Content Technology

- Data
- Information Multimedia
- Animation
- File Types
- Conclusion

6. Programming in C

- Algorithm
- Flowchart
- Introduction to C
- Structure of a C program
- C Variable
- C Constant
- C Keyword
- Data types
- Declaring a Variable
- Input and Output Functions
- Operators
- Control Structures
- Loop Structures

7. Visual Basic
  - Starting Visual Basic 6.0
  - Components of Visual Basic Window
  - Creating a New Project in Visual Basic
  - Basic Controls involved in Building an Interface
  - Creating a Simple Visual Basic Project
  - Executing Visual Basic Program
  - Saving a Project and a Form
  - Data Types
  - Operators in Visual Basic
  - Built-in Functions in VB
  - Control Statements
  - Looping Statements
  
8. Societal Impacts of IT - I
  - Plagiarism
  - Intellectual Property Rights
  - Privacy
  - Computer Security and Integrity of Information
  - Careers in IT

**PRESCRIBED TEXTBOOK:**

- **Click Start -  
Computer Science for Schools - 9**  
M/S Cambridge University Press, 10 Raja Subodh Mallick Square Second  
Floor, Kolkata - 700013.

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**ENVIRONMENTAL EDUCATION**  
**CLASS - IX**

**PIECES TO BE READ:**

**UNIT I: UNDERSTANDING ECOSYSTEM**

1. Ecosystem and its Types
2. Interaction Between Biotic and Abiotic Components
3. Energy Flow and Nutrient Cycle
4. Destruction of an Ecosystem
5. Impact of Ecosystem Destruction
6. Conservation of an Ecosystem
7. Role of Environmental Impact Assessment (EIA)

**UNIT II: DEPLETION OF RESOURCES**

1. Natural Resources
2. Depletion of Resources
3. Practices for Conservation of Resources

**UNIT III: WASTE GENERATION AND MANAGEMENT**

1. Sources and Classification of Waste
2. Impact of Waste Accumulation
3. Need for Management of Waste
4. Waste Management

**UNIT IV: ENVIRONMENTAL VALUES AND ETHICS**

1. Fundamental Values and Ethics
2. Women and Child Welfare.

**PRESCRIBED TEXTBOOK:**

- **A Textbook of Environmental Studies - IX**  
M/S Goyal Brothers Prakashan, D-231-232, Sector-63, Noida – 201301 (UP).

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**CREATIVE EXPRESSION**  
**CLASS - IX**

*- The whole book is to be completed -*

**PRESCRIBED TEXTBOOK:**

- **WOW! ART & CRAFT - IX**  
M/S Allied Publishers, 1/13-14, Asaf Ali Road, New Delhi - 110002.

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**WORK EDUCATION**  
**CLASS - IX**

**PIECES TO BE READ:**

1. Health and Hygiene
2. Prevention and Control of Diseases
3. Field Work: Awareness on Diseases
4. Community Service
5. Photography
6. Commercial Art
7. Interior Decoration
8. Dyeing and Printing
9. Book Keeping
10. Plumbing
11. Woodwork
12. Meal Planning
13. Designing and Stitching
14. Computer: Using MS Office

**PRESCRIBED TEXTBOOK:**

- **Work Education - IX**  
M/S Allied Publishers, 1/13-14, Asaf Ali Road, New Delhi - 110002.

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