Nagaland Board of School Education
Kohima

No. NBE-3/Ad-Tb(10)/2020/568 Dated Kohima the 22nd May 2020

To,

All the Heads of Registered Institutions of the Board.

Subject: **Class IX syllabus for academic session 2020.**

Sir/Madam,

This is to inform all the registered institutions of the Board that due to the unprecedented situation caused by the COVID-19 pandemic and subsequent lockdown of the educational institutions across the country, the Nagaland Board of School Education in consultation with the stake holders has relooked into its existing syllabus of Class IX and had made certain modifications keeping in mind the interest of the students that they don't lose out in their learning and at the same time they are not pressurised too much.

The existing syllabus has been divided into internal and external portion. The internal portion is attached herewith as an Annexure.

The internal portion of the syllabus will be assessed by the schools based on the concept of CCE which is being followed by the Board. The marks for the internal assessment will remain the same i.e. 20 marks.

The schools will maintain a proper record of the assessment done and the internal marks secured by the students shall be submitted to this office along with the external marks.

The Board shall conduct the Class IX Promotion Examination 2020 based on the existing syllabus **excluding** the Topics/Units listed in the **Annexure** which is to be internally assessed by the schools. The marks for the final examination will remain the same i.e. 80 marks. The syllabus of Class X, XI and XII shall remain the same.

This arrangement is made exclusively for this academic session 2020.

All Heads of Institutions are therefore, requested to take note of the modification and instruct their subject teachers accordingly. The revised syllabus is made available in the Board's website (*http://www.nbsenagaland.com*).

Further, schools are requested and reminded again to encourage their students to connect with the **e-learning apps** recommended by the Board as well as to view the telecast lessons broadcasted by Doordarshan and AIR, Kohima. All possible measures may kindly be initiated by the schools to support the students learning in these times of crisis. Secondly, guidelines issued by the Government of Nagaland from time to time should be adhered to.

Yours faithfully

22.5.2020

(Mrs. Asano Sekhose)
Chairman

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Copy for information:

1. The Principal Secretary to the Government of Nagaland, Department of School Education & SCERT, Nagaland, Kohima
2. The Principal Director, School Education, Nagaland, Kohima.
3. The Director, SCERT, Nagaland, Kohima

(Mrs. Asano Sekhose)
Chairman

Annexure

CLASS-IX

The following topics/chapters will not be included in the final External examination of the Board. However, these topics/chapters has to be compulsorily assessed internally by the institutions as per the concept of CCE followed by the Board and submit the marks along with the final result.

I. ENGLISH

Prose: Toasted English (R.K Narayan)
Poetry: Mirror (Nini Lungalang)

II. ALTERNATIVE ENGLISH

Prose: The Tunguska Event (Carl Sagar)
Grammar: 1. Reported Speech in extended texts 2. Punctuation

III. MODERN INDIAN LANGUAGE

AO

Prose: Shiruru Aser Meimchir Tesendaktep
Poetry: Impur

LOTHA

Prose: Hümjonlijon
Poetry: Ronsi Etsa

SÜMI (Sütsah)

Prose: Akithi
Poetry: Apu Kishe Anga Kishe

TENYIDIE

Prose: Roviu I, II, III
Poetry: No Kevitho-u

BENGALI

Prose: Pitri Sneha – Dwijendra Lal Roy
Poetry: Sadhok – Man Kumari Basu

HINDI

Prose: Mera Bachpan
Poetry: Bharat Varsh

IV. MATHEMATICS

Unit II :

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

Unit IV :

1. Introduction to Euclid's Geometry

History - Geometry in India and Euclid's geometry. Euclid's method of formalizing observed phenomenon into rigorous Mathematics with definitions, common/obvious notions, axioms/postulates and theorems. The five postulates of Euclid. Equivalent versions of the fifth postulate. Showing the relationship between axiom and theorem, for example:
(Axiom) 1. Given two distinct points, there exists one and only one line through them.
(Theorem) 2. (Motivate) Two distinct lines cannot have more than one point in common.

5. Areas

Review concept of area, recall area of a rectangle.

1. (Prove) Parallelograms on the same base and between the same parallels have the same area.
2. (Motivate) Triangles on the same base and between the same parallels are equal in area and its converse.

6. Circles

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

1. (Motivate) Equal chords of a circle subtend equal angles at the center and (motivate) its converse.
2. (Motivate) The perpendicular from the center of a circle to a chord bisects the chord and conversely, the line drawn through the center of a circle to bisect a chord is perpendicular to the chord.
3. (Motivate) There is one and only one circle passing through three given non-collinear points.
4. (Motivate) Equal chords of a circle (or of congruent circles) are equidistant from the center(s) and conversely.
5. (Prove) The angle subtended by an arc at the center is double the angle subtended by it at any point on the remaining part of the circle.
6. (Motivate) Angles in the same segment of a circle are equal.
7. (Motivate) If a line segment joining two points subtends equal angle at two other points lying on the same side of the line containing the segment, the four points lie on a circle.
8. (Motivate) The sum of the either pair of the opposite angles of a cyclic quadrilateral is 180° and its converse.

Unit V :

Volumes of cuboids, spheres (including hemispheres) and right circular cylinders/cones.

V. SCIENCE

Unit I :

Chapter 1 - Matter in Our Surroundings: Physical nature of matter, characteristics of particles of matter, States of Matter, Change of State, Evaporation.

Chapter 2 - Is Matter Around us Pure: Mixtures, types of mixtures, solution, suspension and colloid, separation of components of a mixture, elements, compounds.

Unit-II :

Chapter 5 - The Fundamental unit of Life: Structural Organisation of a Cell, Cell organelles and functions.

Unit-III :

Chapter 8 - Motion: Motion- along a straight line, uniform and non-uniform motion, rate of motion, rate of change of velocity, graphical representation of motion, distance- time graphs, velocity-time graphs, derivation of equations of motion by graphical method, uniform circular motion.

Chapter 10 - Gravitation: Gravitation, Universal law of Gravitation, Free fall, acceleration due to gravity, mass, weight, thrust and pressure, buoyancy, Archimedes' Principle, Relative density.

Unit-V :

Chapter 14 - Natural Resources: Resources- Air, water, soil, minerals, Biogeochemical cycles- water cycle, Nitrogen cycle, carbon cycle, oxygen cycle, Greenhouse effect, Ozone layer.

VI. SOCIAL SCIENCES

Unit I:

Rise of Nazism : The growth of social democracy, the crisis in Germany, the basis of Hitler's rise to power, the ideology of Nazism, the impact of Nazism.

Unit II:

India : Location, relief, structure, major physiographic units.

Unit III:

Institution of Parliamentary Democracy :Parliament, its role in democracy.

Unit IV:

Economics : Its meaning, types of economy, features of Indian economy, public sector, private sector, joint sector.

VII. BOOK KEEPING & ACCOUNTANCY

Unit III: Source documents and accounting equation——

Origin of Transactions, Source Documents, Vouchers and its features, Accounting equation, Effect of transaction on Accounting equations.

Unit V:

Classification of Accounts, Rules of Debit and Credit.

Unit VI:

Ledger Posting from Journal Entries, Balancing of Ledger Accounts, Ledger Posting from Cash Book

VIII. ENVIRONMENTAL EDUCATION

Unit I:
Energy flow and its importance, cycles of nutrients in terrestrial and aquatic (fresh water and marine) ecosystems, nature's mechanism in maintaining balance.
Role of Environmental Impact Assessment (EIA) in maintaining the quality of the environment.

Unit II:
Practices for conservation of resources – search for alternatives, promotion of renewable resources.

Unit III:
Impact of waste accumulation – spoilage of landscape, pollution, health hazards, effect on terrestrial and aquatic (fresh water and marine) life.

Unit IV:
Human rights, fundamental duties and value education.

IX. HOME SCIENCE

Unit I: Concept, objective and scope of Home Science

Unit IX: Selection of clothes:
Meaning of clothing, functions of clothing, factors affecting selection of clothing- age, climate, occupation, occasion, figure, fashion, cost, comfort.

X. MUSIC

Unit-II
syncopation
Answering a given rhythm (melodic response); Writing own tunes to a given rhythm (melodic response).
Musical words and symbols

XI. FOUNDATION OF INFORMATION TECHNOLOGY (FIT)

Unit-II: Information Processing Tools
find and replace, inserting tables: Inserting, deleting row and columns, merging cells, splitting cells, using auto-format;

Introduction of Presentation Tools (Example: Ms-powerPoint, Powton, SlideRocket, Google Docs Presentation Program)
Introduction to presentation graphics, understanding of concept of slide shows, basic elements of a slide, different types of slide layout, creating and saving a presentation, different views of slide- normal view, slide sorter view and slide sort; Editing and formatting a slide , Adding titles, subtitles, Text Background, watermark; Headers and footers, Numbering slides;

Inserting pictures from files, animating pictures and text with sound effects, timing text box, pictures and slides, Rehearse timings, ungrouping and grouping pictures from clipart.