Outline of the 10 Elective Subjects to be offered in NSS curriculum:

**Biology**

The following topics are included in the NSS Biology curriculum:

- *Cells and Molecules of Life*
- *Genetics and Evolution*
- *Organisms and Environment*
- *Health and Diseases*

Through the study of Biology, students may understand how cells and genes are related to the essential life processes of complex organisms; the interaction between organisms and their environment; and develop a positive attitude towards health.

In the normal lesson time, simple investigation and practical works would be included. Besides, cross-topics investigations would be arranged to enhance students to develop the different scientific skills and appreciate the nature of science.

**Chemistry**

Through the learning of chemistry, you can understand the composition, structures, and properties of matter; and the interactions between different types of matter. Besides, a study of chemistry in real-life contexts also helps to develop understanding and appreciation of developments in engineering, medicine and other related scientific and technological fields, e.g. the use of new materials like carbon nanotube, fuel cells, energy crisis and forensic science.

The curriculum includes topics such as

- atomic structure
- bonding, structure and properties
- metals and non-metals
- acids and bases
- industrial chemistry.

Students are required to conduct a project to integrate knowledge and skills acquired.
Chinese History (中國歷史)

本課程包括:

甲、公開考試 60分

卷一：「歷代發展」必修部份，佔 50%，考試時間兩小時：

甲部：上古至十九世紀中葉
乙部：十九世紀中葉至二十世紀末

卷二：「歷史專題」選修部份，下列六個專題，選修兩個。佔 30%，考試時間

一小時二十分鐘：

➤ 二十世紀中國傳統文化的發展：承傳與轉變
➤ 地域與資源運用
➤ 時代與知識份子
➤ 制度與政治演變
➤ 宗教傳播與文化交流
➤ 女性社會地位：傳統與變遷

乙、校本評核 40分

學生按「學習及評核計劃」呈交習作。

Information and Communication Technology (ICT)

No one can deny that the immediate future of Hong Kong is dependent upon its transformation into a knowledge-based society.

This curriculum is intended to develop your ICT abilities to meet the new socio-economic needs of Hong Kong, and it includes topics like

➤ Information Processing & Presentation
➤ Computer Systems and Networks
➤ Internet and its Applications
➤ Basic Programming Concepts
➤ Social Implications

One of the following electives, with related project work will also be chosen:

➤ Databases
➤ Data Communications and Networking
➤ Multimedia Production and Web Site Development
➤ Software Development
**Economics**

The curriculum objectives are to develop students’ interest in exploring human behaviour and social issues through an economic perspective and help students understand the world in which they live through mastery of basic economic knowledge.

The curriculum includes the following topics:

**Compulsory part:**
(a) basic economic concepts  
(b) production and firms  
(c) market and price  
(d) competition and market structure  
(e) efficiency, equity and the role of government  
(f) measurement of economic performance  
(g) national income determination and price level  
(h) money and banking  
(i) macroeconomic problems and policies  
(j) international trade and finance

**Elective part:**
(a) monopoly pricing, anti-competitive behaviours and competition policy; OR  
(b) extension of trade theory, economic growth and development

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**Geography**

Through geographical study, you can see meaning in the arrangement of things in space; see relations between people, place and environment; and develop lifelong learning skills.

NSS curriculum includes interesting fieldwork and study of geographical problems:
- Is it rational to live in hazard-prone areas?
- Managing Rivers and Coastal Environments: A continuing challenge
- Changing Industrial Location – How and why does it change over space and time?
- Building a Sustainable City – Are environmental conservation and urban development mutually exclusive?
- Combating Famine – Can technology solve food shortage problem?
- Disappearing Green Canopy – Who should pay for the deforestation in rainforest?
- Global Warming
**History**

The study of history helps to develop a global perspective and an understanding of the processes of interaction, diversification and rapid change in today’s world. The curriculum consists of two parts:

A. **Compulsory part with two themes**
   - Modernisation & Transformation in Twentieth-century Asia, e.g. Modernization and Transformation of Hong Kong, China, Japan and Southeast Asia.
   - Conflicts & Cooperation in the Twentieth-century World, e.g. the Two World Wars and the Peace Settlements, the Cold War, etc.

B. **Three electives** of which students can specialize in any one according to their interests, ability and needs in the form of a mini-research study
   - Comparative studies
   - Issue-based studies
   - Local heritage studies

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**Business, Accounting and Financial Studies (BAFS)**

The aim of the BAFS curriculum is to provide students with fundamental business knowledge and skills and develop their values and attitudes, so that they can play their roles competently and confidently as consumers, investors, employees and entrepreneurs. Throughout the learning process of BAFS, students can appreciate the pace of change in the business world and develop an awareness of an interest in business for planning their academic and career development.

The curriculum includes the following topics:

(a) Hong Kong Business environment
(b) Introduction to management and accounting
(c) Basics of personal financial management
(d) Financial accounting
(e) Cost accounting
(f) Financial management
(g) Marketing management
(h) Human resources management
Physics

Through the learning of physics, you can acquire conceptual and procedural knowledge relevant to daily lives. You can also develop an understanding of the practical applications of physics to a wide variety of other fields, and should be able to appreciate the intrinsic beauty and quantitative nature of physical phenomena, and the role of physics in many important developments in engineering, medicine, economics and other fields of science and technology.

The curriculum includes topics such as
- heat transfer and gases
- force and motion
- wave motion
- electricity and magnetism
- radioactivity and nuclear energy.

Students are required to conduct an investigation with a view to solving an authentic problem.

Visual Arts

This curriculum assists students to acquire artistic and aesthetic experience, knowledge, skills, values and attitudes. It also helps them to obtain a foundation for pursuing further education and career opportunities in the art and creative industries.

The assessment includes two parts:

Public Examination (50%) ---
Paper 1 - Visual presentation of a theme OR Paper 2 - Design
In each Paper, candidates are required to attempt BOTH of the following sections:
(a) Written presentation on critical appreciation of reproductions of artwork provided (10%), and
(b) Art making (40%)

School-Based Assessment (50%) --- Submit TWO portfolios consisting of:
(a) Research workbook (Presentations on art appreciation and criticism in context in relation to art making /critical studies, and research process) (20%); and
(b) Artwork/Critical studies (Three pieces of work in each portfolio) of a theme (30%)