

NSS Subject Preparation Week

Science Stream
Subjects Introductory Sections
3/6/2010
4:15 – 5:00

1. NSS elective subject introduction
2. Strategies to choose elective subject combination
3. Question and answering section

Science elective subjects

- Biology
- Chemistry
- Physics
- Combined Science
(Biology + Chemistry)

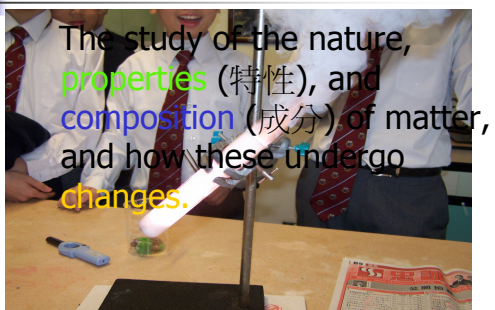
Biology is ...



Biology related IS syllabus

| Form | Syllabus |
|-------|--|
| One | Looking at Living Things Cells and Human Reproduction |
| Two | Living Things and Air Sensing the Environment |
| Three | Digestive system |

Chemistry ...

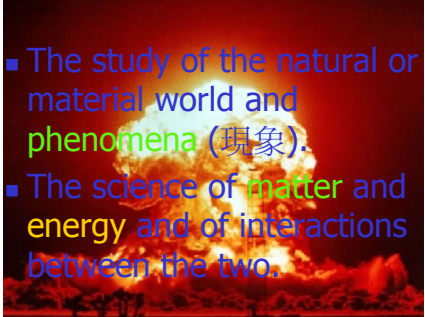


Chemistry related IS syllabus

| Form | Syllabus |
|-------|-------------------------------|
| One | The Wonderful Solvent - Water |
| Two | Common Acids and Alkalis |
| Three | Atomic structure Metals |

Physics is...

- The study of the natural or material world and phenomena (現象).
- The science of matter and energy and of interactions between the two.



Physics related IS syllabus

| Form | Syllabus |
|-------|---|
| One | Energy Matter as Particles |
| Two | Making Use of Electricity Space Travel |
| Three | Light Colours and Beyond |

Daily example about science...

Biology

- 幹細胞醫治以國少年腦脊生瘤
19/02/2009



【綜合外電報道】幹細胞治療被認為是醫治癌症等頑疾的新希望，但以色列一名男孩患上致命腦部疾病，接受了注射胚胎幹細胞治療，引致腦部及脊髓長出肉瘤。



Daily example about science...

Chemistry


內地奶粉含三聚氰胺事故



Nc1nc(N)c(N)n1

Daily example about science...

Physics

【東方日報專訊】【本報訊】「光纖之父」高錕榮獲諾貝爾物理學獎，登上科研界終極殿堂。印證高錕超卓成就的諾貝爾獎章，已送抵香港中文大學，校方將設立展覽室，與港人一同分享這位中大前校長的榮耀。港府決定將香港科學園會議中心命名為「高錕會議中心」，以表揚其貢獻。



Further studies (Biology)

| | |
|-------|---|
| CUHK | Science Faculty-Food and Nutrition Division..... |
| PolyU | Applied Science Faculty..... |
| HKUST | Science School..... |
| HKU | Dental surgery, Nursing, Science, Bioinformatics, Sport science, Biotechnology..... |

Further studies (Chemistry)

| | |
|-------|---|
| CUHK | Engineering Faculty Science Faculty Medicine Faculty |
| BU | Chinese Medicine Faculty Science Faculty |
| HKUST | Engineering School Science School |
| HKU | Dental surgery, Nursing, Science, Bioinformatics, Chinese medicine, Medicine Sport science and business programme |

Further studies (Physics)

| | |
|-------|--|
| CUHK | Engineering Faculty Science Faculty |
| PolyU | Applied Science Faculty |
| HKUST | Engineering School Science School |
| HKU | Dental surgery, Nursing, Engineering, Science, Bioinformatics, Sport science, Business administration (information systems) programme |

Useful website



To study Biology, it requires...

- Grade E in I.S.
- Understanding **experiments**
- Writing explanations
- Analysing Data
- Applying in daily life

To study Chemistry, it requires...

- Grade E in I.S.
- Open-minded to abstract contents
- Doing **experiments**
- Writing chemical equations
- Writing observations

To study Physics, it requires...

- E in I.S.
- Using **Mathematics** (calculations and graphs)
- Understanding **experiments**
- Writing explanations
- Applying in daily life

Strategies to choose elective subject combination

- Career / Further studies
- Interest
- Ability

| | | Class | | | | |
|----------|----|---------------------------------|--------------------------------|--|--|--|
| Subject | | 4M | 4J | 4P | 4W | 4T |
| Core | | ENG CHI MATHS LS | | | | |
| Elective | X1 | PHY 1 | CHEM 1 | ECON 1 / GEOG / ICT (C) | ECON 1 / GEOG / ICT (C) | ECON 1 / GEOG / ICT (C) |
| | X2 | BIO / BAFS 1 | BIO / BAFS 1 | BAFS 2 / CHILIT / CHIST / HIST / COM SCI | BAFS 2 / CHILIT / CHIST / HIST / COM SCI | CHILIT / CHIST / HIST / COM SCI |
| | X3 | ECON 2 / CHEM 2 / ICT (D) | ECON 2 / PHY 2 / ICT (D) | PHY 2 / ICT (D) | CHEM 2 / ICT (D) | |
| Others | | MATHS Extended Modules 1 / 2* | | | | |
| OLE | | AE PE RSE | | | | |

Subject panel chairman

| | |
|------------------|------------------|
| Biology | Mr. Ben Chan |
| Chemistry | Mr. Derek Lam |
| Physics | Mr. Johnson Chan |
| Combined Science | Mr. Derek Lam |

Question and Answer