

# Science



# Combined Science (Phy/Chem or Chem/Bio)

## Pure Physics & Pure Chemistry

### Objectives

Improve scientific literacy, develop informed interest in matters of scientific importance and become confident citizens in a technological world.

### Major topics broadly involve (for both NA and Express)

- Physics – Newtonian mechanics, Thermal physics, Waves, Electromagnetism
- Chemistry – Experimental Chemistry, Atomic structure, Reactions, Periodicity
- Biology – Maintenance and regulation of life process, principles of biology

### Comparison of N(A) and Express Combined Sci (for Out-of-Stream students)

Express Comb. science covers ~20% more content compared to N(A)

### Comparison of Pure and Combined Sci

Pure Sciences covers ~20% more content compared to Comb. Science.



# Pure Biology elective

## Pure Biology – topics similar to previous slide

- Pure Biology is taken as an 8<sup>th</sup> subject – should be strong in sciences
- Need to have good language skills – long essay questions
- Commitment and interest is important - those taking pure biology will be taking 3 pure sciences, and require the time commitment for three sets of practicals
- **NOT** a requirement for medical/pharma/biotech studies
- Eligible to those who score well for Science and English



# Factors to consider

1. Interest in Physics or Biology
2. Aspirations in the future e.g. Career in Engineering, Pharmacy, etc.
3. Commitment level – ability to commit to higher levels of workload and difficulty (for N(A) students offered Express and Express students choosing Pure Sciences)

## General Tips

- Understand the concepts, take an interest in the subject
- Take assignments seriously
- For Pure sciences, need to be conscientious and be willing to cope with heavy workload

