YEAR 4 FOUNDATION IB / PRE IB SCIENCE OPTIONS

Please tick accordingly.

☐ Foundation IB Programme

☐ Pre IB Programme

STUDENT DETAILS

Name (as in Passport/NRIC) *(Please underline surname)*	Preferred Name
Nationality ☐ Singapore Citizen ☐ Singapore PR ☐ Others:	Mobile No.

Has the student ever been enrolled in a learning support programme?

☐ Yes ☐ No

LANGUAGE DETAILS *Please complete this section only if it is applicable.*

PSLE Aggregate Score	*Please attach the results slip showing the result indicated.* ☐

SCIENCES DETAILS

Please choose any two sciences.

☐ Chemistry (Please complete the **IB Chemistry Entry level** form) – A.1

☐ Physics (Please complete the **IB Physics Entry level** form) – A.2

☐ Biology (Please complete the **IB Biology Entry level** form) – A.3

FOR OFFICIAL USE ONLY *Admission Test Results*

Chemistry	Physics	Biology

PARENT / GUARDIAN DETAILS

Name (as in Passport/NRIC) *(Please underline surname)*

Relationship to Student	Mobile No.
Parent's / Guardian's Signature	Date

A.1

IB Chemistry

(Entry level to Year 4 Foundation IB / Pre IB Physics)

Name (as in Passport/NRIC) *(Please underline surname)*	Preferred Name

Please tick accordingly to ascertain your level of competency on the various topics for IGCSE Physics.

IGCSE Topics	Completed (Please tick)	Remarks (Please list some concepts learnt previously)
The Particulate Nature of Matter		
Experimental techniques (Measurement, purity and methods of purification)		
Atomic structure and Periodic Table		
Bonding and structure (Ionic, covalent, macromolecules and metals)		
Stoichiometry (Mole concept and balancing chemical equation)		
Redox reaction		
Acids, bases and salts (Properties, types of oxides, salts preparation)		
Identification of ions and gases		
The Periodic Table		
Air and water		
Ammonia		
Sulfur		
Carbonates		
Speed of reaction		
Chemical changes (Energies of a reaction and production of energy through simple cells)		
Metals (Properties, reactivity series, extraction and method of rust prevention)		
Electricity and Chemistry (Electrolysis)		
Reversible reactions		
Organic Chemistry (Fuels, alkanes, alkenes, carboxylic acids, alcohols and esters)		
Polymers		
The Particulate Nature of Matter		
Experimental techniques (Measurement, purity and methods of purification)		
Atomic structure and Periodic Table		
Bonding and structure (Ionic, covalent, macromolecules and metals)		
Stoichiometry (Mole concept and balancing chemical equation)		
Redox reaction		

English Competency *(Please tick accordingly)*

☐ First Language Learner (Foundation IB) ☐ Advanced Second Language Learner (Foundation IB)

☐ Intermediate levels of written and spoken English (Pre IB) ☐ Basic levels of written and spoken English (Pre IB)

Any coursework or practical experience *(Please tick accordingly)*

☐ Yes ☐ No

Type of related curriculum *(e.g. MYP Chemistry / IGCSE Chemistry / Coordinated Science / GCSE / GCE 'O' Level Pure Chemistry / GCE 'O' Level Sub Chemistry)*

A.2

IB PHYSICS

(Entry level to Year 4 Foundation IB / Pre IB Physics)

Name (as in Passport/NRIC) *(Please underline surname)*	Preferred Name

Please tick accordingly to ascertain your level of competency on the various topics for IGCSE Physics.

IGCSE Topics	Completed (Please tick)	Remarks (Please list some concepts learnt previously)
Year 3 Topics		
General Physics		
Length and Time		
Speed, velocity and acceleration		
Mass and Weight		
Density		
Forces		
Energy, work and power		
Pressure		
Thermal Physics		
Simple kinetic molecular model of matter		
Thermal expansion		
Thermal transfer (Conduction, convection, radiation)		
Simple kinetic molecular model of matter		
Properties of wave		
General wave properties		
Light (Reflection, refraction, converging lens, dispersion, em spectrum)		
Sound		
Year 4 Topics		
Electricity		
Electrical quantities (Electric charge, current, emf, potential difference, resistance)		
Electric circuits (Circuit diagrams, series & parallel circuits, circuit components, digital electronics)		
Dangers of electricity		
Electrical quantities (Electric charge, current, emf, potential difference, resistance)		
Magnetism		
Simple phenomena of magnetism		
Electromagnetic effects (em induction, ac generator, transformer, magnetic effect of current, force on current carrying conductor, dc motor)		
Cathode ray oscilloscope		
Atomic Physics		
Radioactivity (Detection; α & β particles & γ rays; radioactive decay; half-life; safety precautions)		
The nuclear atom (atomic model; nucleus isotopes)		

English Competency *(Please tick accordingly)*

☐ First Language Learner (Foundation IB) ☐ Advanced Second Language Learner (Foundation IB)

☐ Intermediate levels of written and spoken English (Pre IB) ☐ Basic levels of written and spoken English (Pre IB)

Any coursework or practical experience *(Please tick accordingly)*

☐ Yes ☐ No

Type of related curriculum *(e.g. MYP Chemistry / IGCSE Chemistry / Coordinated Science / GCSE / GCE 'O' Level Pure Chemistry / GCE 'O' Level Sub Chemistry)*

Previous grades in the above curriculum	Comments *(Any particular areas of weakness)*

A.3

IB Biology

(Entry level to Year 4 Foundation IB / Pre IB Physics)

Name (as in Passport/NRIC) *(Please underline surname)*	Preferred Name

Please tick accordingly to ascertain your level of competency on the various topics for IGCSE Physics.

IGCSE Topics	Completed (Please tick)	Remarks (Please list some concepts learnt previously)
Year 3 Topics		
Characteristics of living things		
Classification and diversity of living organisms		
Cell structure and organisation		
Movement in and out of cells		
Enzymes		
Plant nutrition		
Transport in plants		
Respiration		
Year 4 Topics		
Transport in humans		
Excretion in humans		
Coordination and Response Hormones Drugs Homeostasis Topic and Responses Nervous Control		
Inheritance		
Reproduction in plants		
Reproduction in humans		
Growth and development		
Ecology		

English Competency *(Please tick accordingly)*

☐ First Language Learner (Foundation IB) ☐ Advanced Second Language Learner (Foundation IB)

☐ Intermediate levels of written and spoken English (Pre IB) ☐ Basic levels of written and spoken English (Pre IB)

Any coursework or practical experience *(Please tick accordingly)*

☐ Yes ☐ No

Type of related curriculum *(e.g. MYP Chemistry / IGCSE Chemistry / Coordinated Science / GCSE / GCE 'O' Level Pure Chemistry / GCE 'O' Level Sub Chemistry)*

Updated in August 2020