



# ACS (International)

A Methodist Institution

Nurturing Future Leaders and Global Citizens in a Christian Community

## FIB / PreIB Science Option

Please tick:  Foundation IB Programme  Pre IB Programme

Please complete the information below

STUDENT DETAILS	LANGUAGE DETAILS <i>Only complete this section if it is applicable</i>
FAMILY NAME	PSLE AGGREGATE SCORE
GIVEN NAME	
FULL NAME	
NATIONALITY <input type="checkbox"/> Singapore Citizen <input type="checkbox"/> Singapore PR <input type="checkbox"/> Other _____	
MOBILE NO.	
Has the student ever been enrolled in a learning support programme? <input type="checkbox"/> Yes <input type="checkbox"/> No	<i>Please attach the results slip showing the above results</i> <input type="checkbox"/>

SCIENCES DETAILS	FOR OFFICIAL USE ONLY
Please choose any two sciences	
<p><b>PRE IB / FIB PROGRAMME</b></p> <p><input type="checkbox"/> Chemistry (Please complete the <b>IB Chemistry Entry level</b> form) – A.1</p> <p><input type="checkbox"/> Physics (Please complete the <b>IB Physics Entry level</b> form) – A.2</p> <p><input type="checkbox"/> Biology (Please complete the <b>IB Biology Entry level</b> form) – A.3</p>	<p>ADMISSION TEST RESULTS:</p> <p>Chemistry _____</p> <p>Physics _____</p> <p>Biology _____</p>

PARENT OR GUARDIAN DETAILS	
FAMILY NAME	
FULL NAME	
RELATIONSHIP TO STUDENT	MOBILE NO.
Parent / Guardian's Signature _____	Date _____

**Science Faculty**

Family Name: \_\_\_\_\_ Given Name: \_\_\_\_\_

**IB Chemistry (Entry level to Year PreIB / FIB chemistry)**

Please tick accordingly to ascertain your level of competency in the various topics for IGCSE Chemistry

IGCSE topics	Completed (✓)	Remarks (please list down some concepts learnt previously)
The Particulate Nature of Matter	<input type="checkbox"/>	
Experimental techniques (measurement, purity and methods of purification)	<input type="checkbox"/>	
Atomic structure and Periodic Table	<input type="checkbox"/>	
Bonding and structure (ionic, covalent, macromolecules and metals)	<input type="checkbox"/>	
Stoichiometry (Mole concept and balancing chemical equation)	<input type="checkbox"/>	
Redox reaction	<input type="checkbox"/>	
Acids, bases and salts (Properties, Types of oxides, salts preparation)	<input type="checkbox"/>	
Identification of ions and gases	<input type="checkbox"/>	
The Periodic Table	<input type="checkbox"/>	
Air and water	<input type="checkbox"/>	
Ammonia	<input type="checkbox"/>	
Sulfur	<input type="checkbox"/>	
Carbonates	<input type="checkbox"/>	
Speed of reaction	<input type="checkbox"/>	
Chemical changes (Energies of a reaction and production of energy through simple cells)	<input type="checkbox"/>	
Metals (Properties, reactivity series, extraction and method of rust prevention)	<input type="checkbox"/>	
Electricity and Chemistry (Electrolysis)	<input type="checkbox"/>	
Reversible reactions	<input type="checkbox"/>	
Organic Chemistry (Fuels, alkanes, alkenes, carboxylic acids, alcohols and esters)	<input type="checkbox"/>	
Polymers	<input type="checkbox"/>	

English Competency:  First Language Learner (FIB)  Advanced Second Language Learner (FIB)  
 Intermediate levels of written and spoken English (Pre-IB)  Basic levels of written and spoken English (Pre-IB)  
 (please tick accordingly)

Any coursework or practical experience: Yes  No   
 (please tick accordingly)

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 weaknesses): \_\_\_\_\_



Family Name: \_\_\_\_\_ Given Name: \_\_\_\_\_

**IB Physics (Entry level to Year PreIB / FIB Physics)**

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

Year 3 topics	Completed (✓)	Remarks (please list down some concepts learnt previously)
<b>General Physics</b>		
Length and Time	<input type="checkbox"/>	
Speed, Velocity and Acceleration	<input type="checkbox"/>	
Mass and Weight	<input type="checkbox"/>	
Density	<input type="checkbox"/>	
Forces	<input type="checkbox"/>	
Energy, work and power	<input type="checkbox"/>	
Pressure	<input type="checkbox"/>	
<b>Thermal Physics</b>		
Simple kinetic molecular model of matter	<input type="checkbox"/>	
Thermal expansion	<input type="checkbox"/>	
Thermal capacity and temperature	<input type="checkbox"/>	
Melting and boiling	<input type="checkbox"/>	
Thermal transfer (conduction, convection, radiation)	<input type="checkbox"/>	
Simple kinetic molecular model of matter	<input type="checkbox"/>	
<b>Properties of waves</b>		
General wave properties	<input type="checkbox"/>	
Light (reflection, refraction, converging lens, dispersion, em spectrum)	<input type="checkbox"/>	
Sound	<input type="checkbox"/>	
<b>Year 4 topics</b>	<b>Completed (✓)</b>	<b>Remarks (please list down some concepts learnt previously)</b>
<b>Electricity</b>		
Electrical quantities (electric charge, current, emf, potential difference, resistance)	<input type="checkbox"/>	
Electric circuits (circuit diagrams, series & parallel circuits, circuit components, digital electronics)	<input type="checkbox"/>	
Dangers of electricity	<input type="checkbox"/>	
Electrical quantities (electric charge, current, emf, potential difference, resistance)	<input type="checkbox"/>	
<b>Magnetism</b>		
Simple phenomena of magnetism	<input type="checkbox"/>	
Electromagnetic effects (em induction, ac generator, transformer, magnetic effect of current, force on current carrying conductor, dc motor)	<input type="checkbox"/>	
Cathode ray oscilloscope	<input type="checkbox"/>	
<b>Atomic Physics</b>		
Radioactivity (detection; $\alpha$ & $\beta$ particles & $\gamma$ rays; radioactive decay; half-life; safety precautions)	<input type="checkbox"/>	
The nuclear atom (atomic model; nucleus; isotopes)	<input type="checkbox"/>	

English Competency:  First Language Learner (FIB)  Advanced Second Language Learner (FIB)  
 Intermediate levels of written and spoken English (Pre-IB)  Basic levels of written and spoken English (Pre-IB)  
 (please tick accordingly)

Any coursework or practical experience: Yes  No   
 (please tick accordingly)

Type of related curriculum: \_\_\_\_\_ (e.g. MYP Physics / IGCSE Physics / Coordinated Science / GCSE / GCE O level Pure Physics / GCE O Level Sub Physics)

Previous grades in the above curriculum: \_\_\_\_\_

Comments: (any particular areas of weaknesses)

\_\_\_\_\_

**Science Faculty**

Family Name: \_\_\_\_\_ Given Name: \_\_\_\_\_

**IB Biology (Entry level to Year PreIB / FIB Biology)**

Please tick accordingly to ascertain your level of competency in the various topics for IGCSE Biology

IGCSE topics	Completed (✓)	Remarks (please list down some concepts learnt previously)
<b>Year 3 topics:</b>		
Characteristics of Living Things	<input type="checkbox"/>	
Classification and diversity of living organisms	<input type="checkbox"/>	
Cell structure and organization	<input type="checkbox"/>	
Movement in and out of cells	<input type="checkbox"/>	
Enzymes	<input type="checkbox"/>	
Plant Nutrition	<input type="checkbox"/>	
Animal Nutrition	<input type="checkbox"/>	
Transport in Plants	<input type="checkbox"/>	
Respiration	<input type="checkbox"/>	
<b>Year 4 topics:</b>		
Transport in Humans	<input type="checkbox"/>	
Excretion in Humans	<input type="checkbox"/>	
<b>Coordination and Response</b>		
Hormones		
Drugs	<input type="checkbox"/>	
Homeostasis		
Topic and Toxic Responses		
Nervous Control		
Inheritance	<input type="checkbox"/>	
Reproduction in Plants	<input type="checkbox"/>	
Reproduction in Humans	<input type="checkbox"/>	
Growth and Development	<input type="checkbox"/>	
Ecology	<input type="checkbox"/>	

English Competency:  First Language Learner (FIB)  Advanced Second Language Learner (FIB)  
 Intermediate levels of written and spoken English (Pre-IB)  Basic levels of written and spoken English (Pre-IB)  
(please tick accordingly)

Any coursework or practical experience: Yes  No   
(please tick accordingly)

Type of related curriculum: \_\_\_\_\_ (e.g. MYP Biology / IGCSE Biology / Coordinated Science / GCSE / GCE O level Pure Biology / GCE O Level Sub Biology)

Previous grades in the above curriculum: \_\_\_\_\_

Comments: (any particular areas of weaknesses)

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