

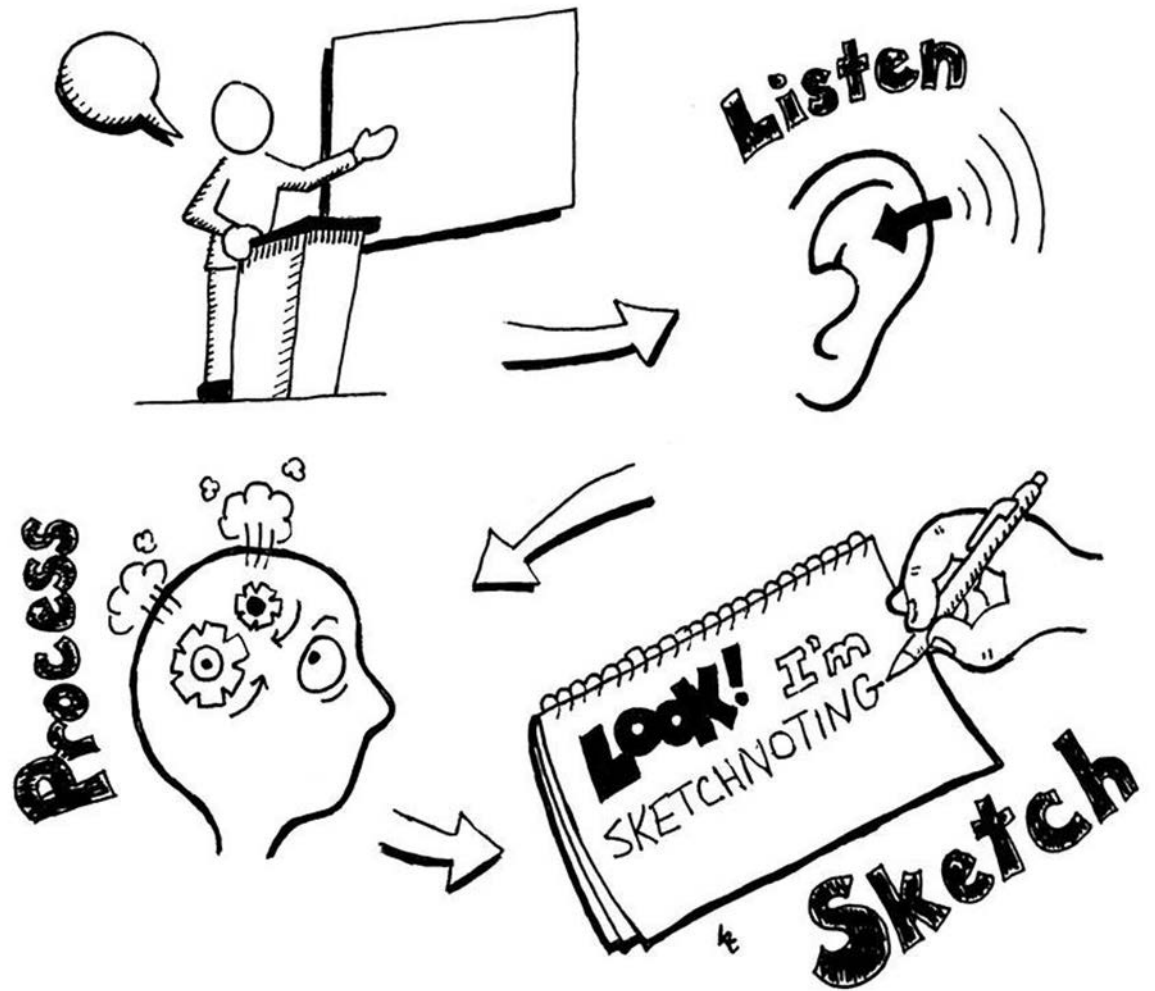


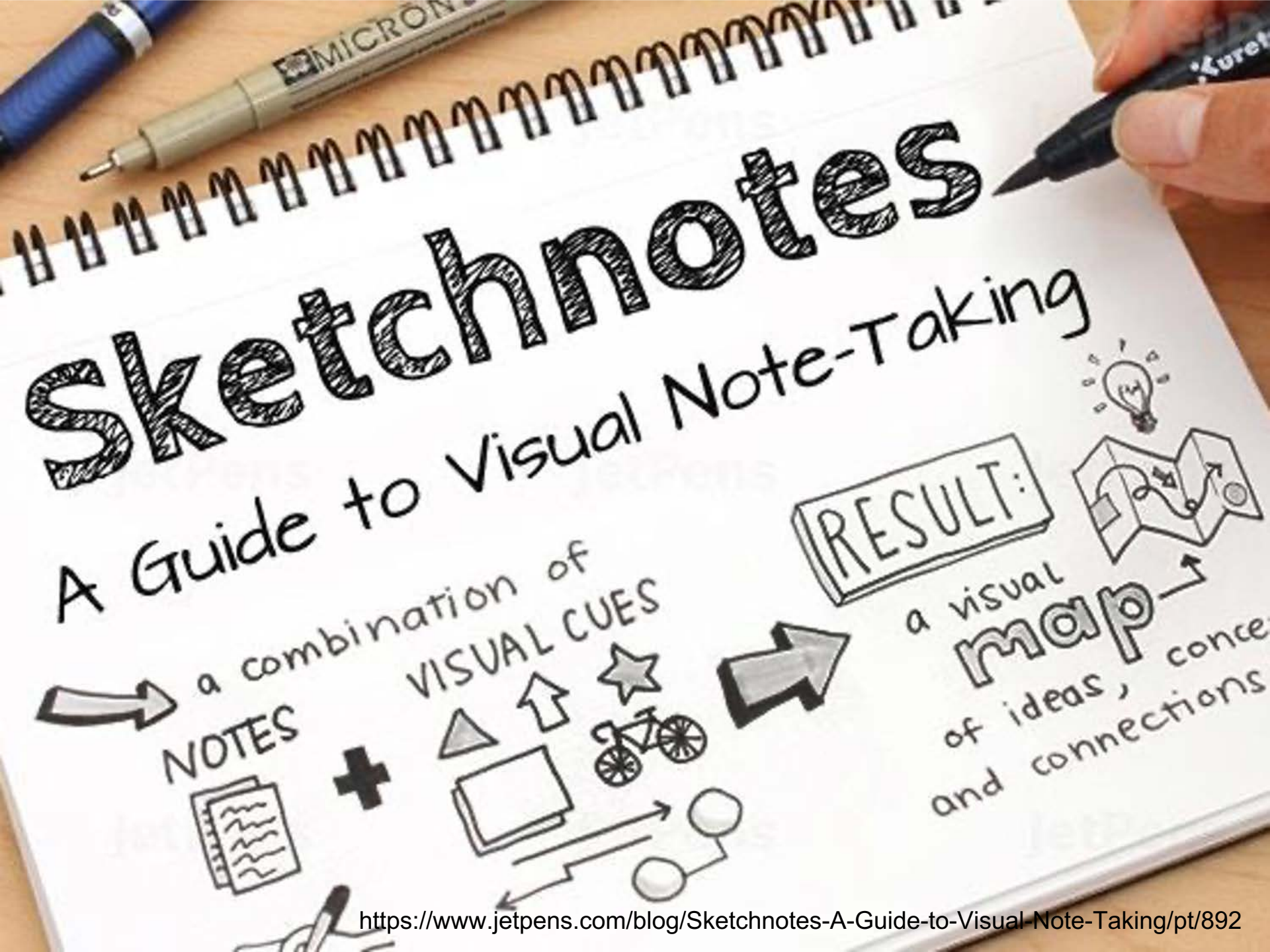
IB Diploma Programme

*Presentation to
Year 4*

Sketchnoting

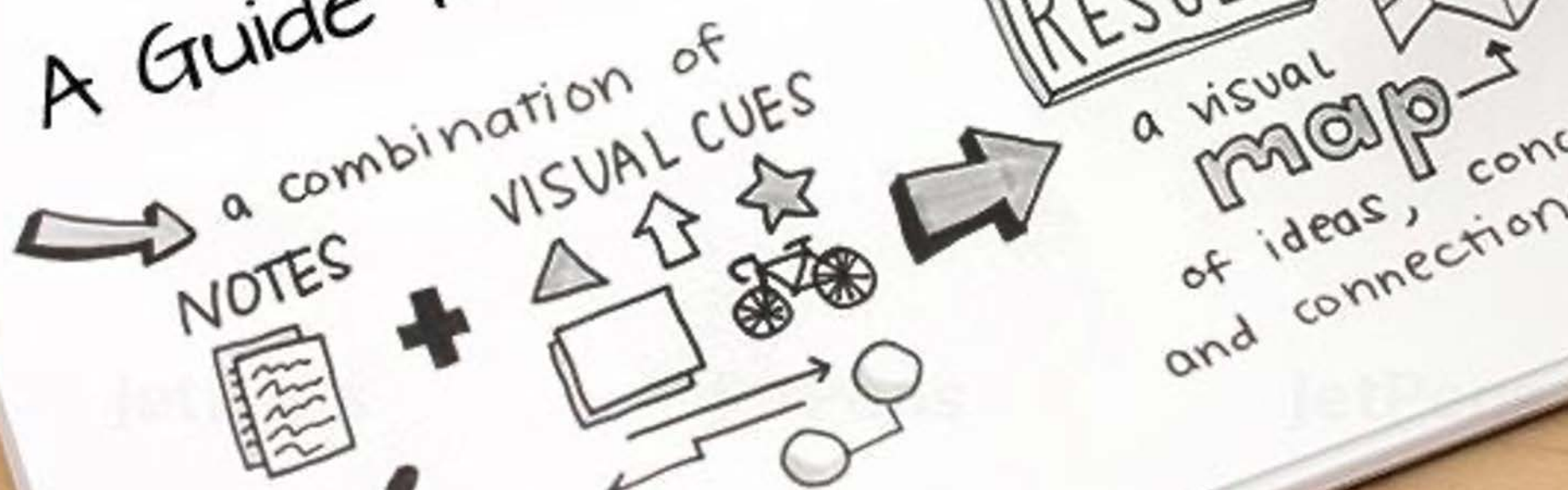
Sketchnoting is creating a *personal visual story* as one is listening to a speaker or reading a text.





Sketchnotes

A Guide to Visual Note-Taking





Stuff — and scientific seminars — primarily physics. By far the most difficult time I've had has been sketchnoting in science seminars. Why?

- 1 The pace is deliberate
- 2 There's discussion of items that needn't be recorded verbatim
- 3 Standard visual libraries can be (re-)used



Science talks are tougher for me because:

- 1 Topic may be unfamiliar
- 2 Presentation may be deeply technical with little high-level motivation — the "So What?"
- 3 Speaker may assume you are already an expert on the subject
- 4 Pace can be very fast
- 5 Slides can be dense with text and/or figures.

Sketchnoting & Science talks

So what can I do to try to fix the problem? (Assume I have no control over the speaker):

- 1 Relax
- 2 Listen more
- 3 Write less
- 4 Read relevant material in advance of talk



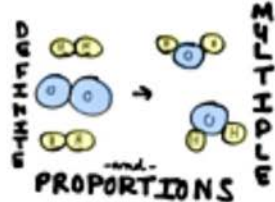
The Development of the Atomic Theory

5th B.C.



DEMOCRITUS

1800's



CONTINUOUS

1900's



THE PLUM PUDDING MODEL

THOMSON

1910's



THE BOHR MODEL

BOHR

1920's

THE QUANTUM MECHANICAL MODEL



ACS (International) IBDP since 2007

The **International Baccalaureate Diploma Programme** (IBDP) is an academically challenging and balanced **two-year curriculum**, primarily aimed at students aged 16 to 19.

It leads to a qualification that is widely recognised by leading universities across the globe.



What is the IBO?

The International Baccalaureate® aims to develop inquiring, knowledgeable and caring young people who help to create a better and more peaceful world through intercultural understanding and respect.

(from the IBO Mission Statement)





The IB Learner Profile...

inquirers

knowledgeable

thinkers

communicators

principled

open-minded

caring

risk-takers

balanced

reflective




- The **active participation** of the learner IB learners strive to be:
Inquirers ... Communicators ... Risk-takers ...
- The **personal responsibility** of the learner IB learners strive to be:
Thinkers ... Knowledgeable ... Balanced ... Reflective ...
- The **moral development** of the learner IB learners strive to be:
Principled ... Caring ... Open-minded ... They are encouraged to act with *integrity and honesty*

University Admissions Officers (2015)

A scale of 1 to 5, where 1 is 'does not develop the quality well' at all and 5 is 'develops it extremely well.'


UK	A levels	The IBDP
	Combined 4 + 5	Combined 4 + 5
	%	%
Encouraging independent inquiry	37	87
Developing global awareness and connectivity	6	80
Developing in-depth subject expertise	81	79
Developing self-management skills	26	76
Developing ability to cope with pressure	56	72
Nurturing an open mind	15	71
Developing workplace skills	3	57
Nurturing communication skills	37	45
Encouraging creativity	15	37
Developing an entrepreneurial or positive approach to risk taking	4	23
Total % score	285	702

diploma
programme



“Diploma Programme students are well rounded, multifaceted, multi-skilled and have studied in depth. They have good time-management skills. They score higher than students in other national systems, and the IB score is worldwide the same measure.”

Hrilina Lock, undergraduate admissions manager,
London School of Economics, UK



“Our experience is that IB diploma graduates are incredibly well prepared for university success. The program’s international flavour, academic rigour and emphasis on inquiry based learning means that IB Diploma students enter university with a global outlook, an excellent work ethic and the critical thinking skills to ensure they achieve.”

Margaret Fairman,

director, Office of Prospective Students and Scholarships, University of Queensland, Australia

What is in the IBDP curriculum?

The curriculum contains SIX subject groups together with a **core** made up of three separate parts.



UNIQUE

What are the three core requirements?



- ✓ **Extended Essay**
- ✓ **Theory of Knowledge**
- ✓ **Creativity, Activity, Service**



Subject Choices in addition to the Core

Students choose 6 subjects – one from each group.

3 are studied at Higher Level.

3 are studied at Standard Level.

Subject choices with university courses in mind

The information for popular courses below is provided as a general guideline, always check the specific university websites for subject combinations:

Area of Study	IB subjects	Level/Other requirement
Architecture	Physics/Maths/History/Language/Visual Arts	HL/SL Portfolio required
Accountancy	Maths HL/SL	HL/SL
Actuarial Science	Maths HL	HL
Banking and Finance	Maths and Economics	HL/SL
Business related – Administration/Management	Maths/Business/Economics	HL/SL
Biochemistry	Biology/Chemistry/Maths	HL/SL
Computer Science	Maths/Physics	HL/SL
Dentistry	Biology and Chemistry are essential/Physics/Maths	HL
Economics	Maths/Economics	HL/SL
Engineering	Maths and Physics	HL/SL
Law	English (Group 1 preferred)/Economics/History	Any combination
Material Science	Physics and Maths. Chemistry will be useful.	HL/SL
Mathematics	Maths at HL	HL
Medicine	Biology and Chemistry are essential/Physics/Maths	HL
Pharmacy	Chemistry with Biology/Maths/Physics	HL
Physics	Maths HL and Physics HL	HL/SL
Psychology	Biology/Maths/Chemistry	HL/SL

UK & Singapore – have very specific requirement for subjects at HL/SL – please check university websites directly.

Differences between Higher & Standard Levels

Number of hours allocated to teaching

- Higher Level - 240 hours
- Standard Level - 150 hours

Depth of knowledge/skills expected

Assessment:

- e.g. History – HL: 3 papers (5 hrs) for written exam;
 - SL: 2 papers (2.5 hrs)

Assessments

- Final examinations - in Oct/Nov (Year 6)
- **Internal assessments** – mostly completed by Y6 Term 3; assessed by teachers + externally moderated by IB
- Oct/November (Year 5)- Languages:Chinese B, Malay B, Tamil B
- Each of the **6 subjects** is awarded a final grade of **1 – 7** points (so a possible **42**)
- Candidates may receive up to **3 bonus points** for their TOK & EE.
- This gives an absolute maximum of **45 points**.
 - A Diploma is awarded for minimum of 24 points.



COURSE WORK (Internal and External)

- an important element in all Groups: **independent research-based report**

oral work in languages

fieldwork in geography

laboratory work in the sciences

investigations in mathematics

artistic performances

portfolio (the arts)

exhibition (TOK, Visual Arts)

essays



Academic Integrity

The IB expects Diploma Programme candidates to exercise academic integrity in all of their work, which includes acknowledging any sources used within an assignment.

The IB General Regulations:

Diploma Programme defines malpractice as behaviour that results in, or may result in, the candidate or any other candidate gaining an unfair advantage in one or more assessment components.

Consequences of malpractice:

NO grade in the subject concerned or NO DIPLOMA awarded

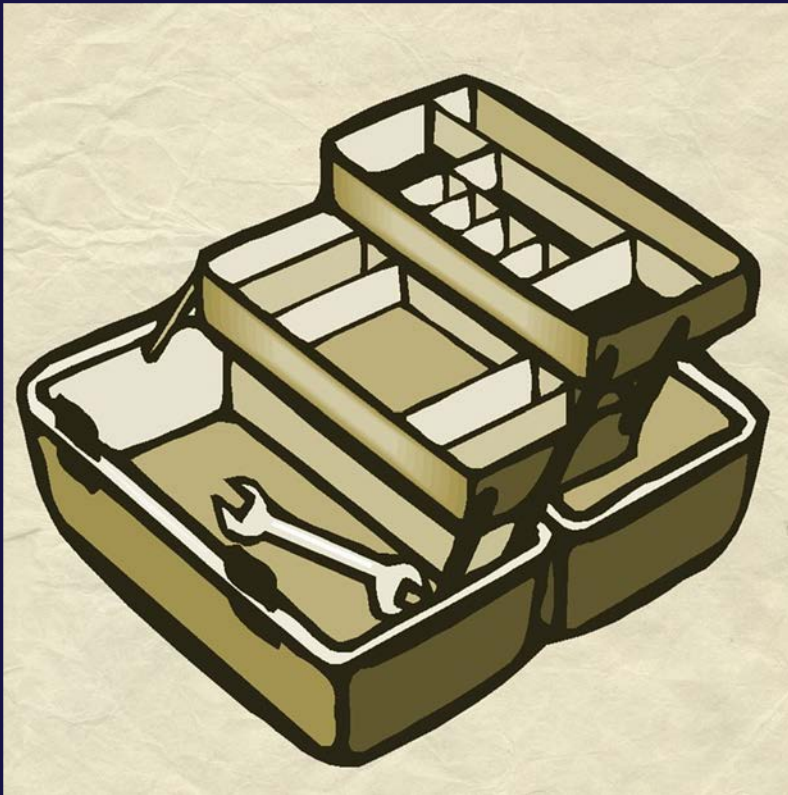
Play to win the game
Study IBDP to



“What’s in your toolbox?”



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Keys to Success: ACS

- *Aspirations + Attitude (to learning)*
- *Competence + Commitment*
- *Self Management + Sustainability*

Reflection Point #1

1. *What was the most surprising and/or unexpected idea expressed in the presentation?*
1. What idea(s) struck you as things you could or should put into practice?



IBDP Results	2015	2016	2017	2018	2019	2020	2021
Pass Rate %	96	98	96	99.4	97	99.4	100
Score 40 & above	10%	18%	22%	21%	19%	21%	49.7
Top Score (45)	45	45	44	45	45	45 (2)	45 (8)
ACS Average	34.8	35.4	36	36.1	36	36	39.25
World Average	31	29.2	29.8	29.7	29.7	29.81	32.37
% Above World Av	83	83	85	90	91	92.3	97.6
Bilingual Dip.	26%	29%	33%	27%	28%	28%	25.75%

Results Summary for N21

100% passing rate

167 Diploma Candidates

8 candidates	45 points	4.79%
17 candidates	44 points	10.18%
21 candidates	43 points	12.60%
83 candidates	40pts and above	49.70%

N21 Average Scores (167 candidates)

Bilingual Diploma	43 candidates	25.75%
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Number of diploma awarded	100% Passing rate
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Global Average	32.37
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Asia-Pacific Average	37.02
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ACS (Intl) Average	39.25
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Undergraduate Offers From Top UK Universities

The school extends its congratulations to our alumni, **Xander Pang** and **Chen Yili**, and their families for their success in gaining offers from the top UK universities for undergraduate studies.

Xander (Class of 2018 and our top IBDP student with 45 points) has been offered a place at the **University of Cambridge** to study Psychological and Behavioural Sciences.



Chen Yili (one of our top IBDP graduates for 2020, top IGCSE student in 2018) has been offered the following:

1. **Oxford University**, Mechanical Engineering (St John's College)
2. **Imperial College London**, Aerospace Engineering
3. **Imperial College London**, Mechanical Engineering

She has decided to accept the offer from Imperial College London to study Aerospace Engineering.



Top UK University Undergraduate Offer



The school congratulates Eliana Kwok (Class of 2021, 6 Thoburn) on her success in gaining offer from Exeter College, University of Oxford. She will read Mechanical Engineering.

World University Ranking 2022		
(ACS (International) students from 2008-2020 in the listed institutions)		
1	University of Oxford (3 students)	United Kingdom
2	California Institute of Technology	United States of America
3	Harvard University	United States of America
4	Stanford University	United States of America
5	University of Cambridge (7 students)	United Kingdom
6	Massachusetts Institute of Technology	United States of America
7	Princeton University	United States of America
8	University of California, Berkeley (8 students)	United States of America
9	Yale University	United States of America
10	The University of Chicago (1 student)	United States of America
11	Columbia University (2 students)	United States of America
12	Imperial College London (21 students)	United Kingdom
13	Johns Hopkins University	United States of America
14	University of Pennsylvania (2 students)	United States of America
15	ETH Zurich – Swiss Federal Institute of Technology Zurich	Switzerland
16	Peking University	China
17	Tsinghua University	China
18	University of Toronto (13 students)	Canada
19	University College London (59 students)	United Kingdom
20	University of California, Los Angeles (7 students)	United States of America
21	National University of Singapore (154 students)	Singapore
22	Cornell University (1 student)	United States of America
23	Duke University	United States of America
24	University of Michigan – Ann Arbor (1 student)	United States of America
25	Northwestern University	United States of America
26	New York University (13 students)	United States of America
27	The London School of Economics and Political Science (17 students)	United Kingdom
28	Carnegie Mellon University (2 students)	United States of America
29	University of Washington (9 students)	United States of America
30	The University of Edinburgh (18 students)	United Kingdom
31	The University of Hong Kong (9 students)	Hong Kong
32	Ludwig Maximilian Universität, Munich	Germany
33	The University of Melbourne (75 students)	Australia
34	University of California, San Diego (9 students)	United States of America
35	King's College London (38 students)	United Kingdom
36	The University of Tokyo	Japan
37	University of British Columbia (35 students)	Canada
38	Technical University of Munich	Germany
39	Karolinska Institute	Sweden
40	École Polytechnique Fédérale de Lausanne	France
41	Paris Sciences et Lettres-PSL Research University	France

Our
Alumni are
in the Top
100 Unis.

42	Heidelberg University	Germany
43	Ku Leuven (2 students)	Belgium
44	McGill University (4 students)	Canada
45	Georgia Institute of Technology (2 students)	United States of America
46	Nanyang Technological University (87 students)	Singapore
47	The University of Texas at Austin (3 students)	United States of America
48	University of Illinois at Urbana-Champaign (2 students)	United States of America
49	The Chinese University of Hong Kong (9 students)	Hong Kong
50	University of Manchester (19 students)	United Kingdom
51	University of St Louis	United States of America
52	University of North Carolina at Chapel Hill	United States of America
53	Radboud University & Research	Netherlands
54	The Australian National University (13 students)	Australia
55	University of Queensland (3 students)	Australia
56	National University	South Korea
57	University of Sydney (59 students)	Australia
58	University of Sydney (30 students)	Australia
59	University of Wisconsin – Madison (4 students)	United States of America
60	Fudan University (1 student)	China
61	Kyoto University	Japan
62	Boston University (21 students)	United States of America
63	University of Southern California (6 students)	United States of America
64	Brown University	United States of America
65	University of Amsterdam	Netherlands
66	The Hong Kong University of Science and Technology (3 students)	Hong Kong
67	University of California, Davis (6 students)	United States of America
68	University of California, Santa Barbara (2 students)	United States of America
69	Utrecht University	Netherlands
70	The University of New South Wales (29 students)	Australia
71	Leiden University (1 student)	Netherlands
72	Erasmus University Rotterdam (1 student)	Netherlands
73	Charité - Universitätsmedizin	Germany
74	Humboldt University of Berlin	Germany
75	Delft Institute of Technology (1 student)	Netherlands
76	Zhejiang University	China
77	University of Zurich (1 student)	Switzerland
78	University of Tübingen	Germany
79	The University of Warwick (36 students)	United Kingdom
80	University of Groningen	Netherlands
81	McMaster University (1 student)	Canada
82	Emory University (2 students)	United States of America
83	Free University of Berlin	Germany
84	Shanghai Jiao Tong University	China
85	The Ohio State University (1 student)	United States of America



1. Ms Rita Kaur, Head of Higher Education & Careers
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2. Mr Nicholas Chia, Careers Advisor
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Reflection point #2

3. What example or illustration cited in today's presentation could you relate to the most?

4. What idea expressed in today's presentation strongly affected or influenced your personal opinions or viewpoints relating to IBDP?



DSA -Direct Admission to IBDP

The qualification for DSA is:

- minimum of **2 A + 2 B + 2 C** grades in **Prelims**
- minimum of a C in English/ESOL, Mathematics and at least one Science
- Good academic, attendance and behavioural records



Direct Admission to IBDP (DSA)

Timeline:

Prelim results

DSA meeting

DSA offer letter in September

Accept DSA offer

Start IBDP in Jan 2023 (before IG results)



Non DSA -entry to IBDP (IGCSE results)

- a **minimum of 3 As and 3 Bs** in **IGCSE** to qualify
- The 3 As and 3 Bs must be in a combination that leads to three Higher Level subjects, and three Standard Level subjects (minimum of A grade for HL subject)
- Students' academic and behavioural records
- Acceptance onto the IBDP is also dependent on there being an appropriate subject package available for them with respect to their academic history.



Subject Option Exercise

- The decision of placement of students into subjects is determined by the school.
- 3 Higher Level (HL) subjects (A) and 3 Standard Level (SL) subjects
 - **IGCSE ESOL** students must get a **minimum of A grade** to take **English Language & Literature A (SL only)**.
 - **Ab Initio language** -only for those with NO formal instruction in it [or less than 2 years]
 - Languages, and The Arts and Humanities subjects offered in Group 6 are subject to sufficient numbers.
- Decisions in relation to not running subjects with low numbers, may be made in January after IGCSE results have been released

Reflection point #3

5. What do you think was the most important point or concept communicated during today's presentation?

6. For you, what questions remain unanswered about today's topic?

