METAPHORISING SCIENCE TEACHERS

BACHELOR OF EDUCATION AND BACHELOR OF SCIENCE (JUPAS CODE: 6119)

Updated in May 2024
Short thematic talk: Metaphorising science teachers
Admissions tips
What our students say
Q&A session
DESCRIBE A GOOD SCIENCE TEACHER (PLEASE USE KEYWORDS).
“If a picture is worth a thousand words, a metaphor is worth a thousand pictures.” — Daniel Pink
METAPHOR

- Originates from a Greek word meaning “to carry across” (Schon, 1979).

- One can internalise one’s understanding of the new situation by relating new information directly to prior experience and thus metaphor offers a vehicle for learning about one’s own thinking.
METAPHORS: AS A TEACHER

A TEACHER IS ....

- A gardener
- A juggler
- A second parent
- A tour guide
- A superhero
- A compass
- A salesman aiming to satisfy customers
- A conductor leading an orchestra
A SCIENCE TEACHER IS...
A LIFEGUARD

“Science teacher is like a lifeguard because he has to be responsible to students and stay alert in various experiments.”
“Science teacher is like a magician, unveiling the mysterious and intriguing nature of science to the audience, who are the students. Every time when the teacher conducts an experiment, it is like performing a magic show. He/she amazes the students by showing a colour change or detecting a special smell, just like a magician surprises the crowd with an unbelievable magic.”
“Science teacher is like a strand of DNA because he inculcates useful science knowledge to his students and passes on the wisdom of science from the older generation.”
“Science teacher is like friction. A good science teacher is friction that is useful. For example, the friction between the shoes and the floor makes us able to move forward which means a good science teacher can help student make improvements and make a step further. If lacking in this kind of friction, we may slip and not able to move.

However, a bad science teacher is the friction that makes student difficult to get forward such as compressing student's creativity and imagination.”
What is your metaphor representing science teachers?

Does it distinguish science teachers from teachers of other subjects?

Does it distinguish good science teachers from any science teachers?
BECOMING REFLECTIVE PRACTITIONERS

“We do not learn from experience ... we learn from reflecting on experience.”
— John Dewey
ADMISSIONS TIPS
### ADMISSIONS SCORES
(WITH REFERENCE TO ADMISSIONS 2023)

<table>
<thead>
<tr>
<th>HKDSE Scoring Formula (The scoring formula considers category A subjects and M1/M2 only, unless otherwise specified.)</th>
<th>Upper Quartile</th>
<th>Median</th>
<th>Lower Quartile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng + 1.5 x Math + 1.5 x Best Sci Subject + Best 2 Subjects with Weighting*</td>
<td>43</td>
<td>42</td>
<td>40</td>
</tr>
</tbody>
</table>

* Subject Weighting for 6119

From 2020-21, HKU adopted a new scoring system by giving bonus points to students achieving Level 5, 5* or 5** in the HKDSE subjects. Under the HKU scoring system, the level to score conversion are as follows:

<table>
<thead>
<tr>
<th>Level</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>5*</th>
<th>5**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Score</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5.5</td>
<td>7</td>
<td>8.5</td>
</tr>
</tbody>
</table>
HKDSE SCORING FORMULA FOR 2024-25 ENTRY

Eng + 1.5 x Math + 1.5 x Best Sci Subject\(^1\) + Best 2 Subjects with Weighting\(^1\)

For more details, please visit: https://admissions.hku.hk/apply/jupas#admissions-standard
STRATEGIES TO GET INTO THE BED&BSC PROGRAMME

- Only applicants who have put the programme as their Band A i.e. top 3 choices in JUPAS choice will be favourably considered.

- Must take and obtain Level 3 or above in one of the following Science elective subjects: Biology, Chemistry, Physics, Combined Science, or Integrated Science.

- Achieve good results in Mathematics and English Language would lead to higher admissions scores.

- Have a competitive edge for candidates studying more Science elective subjects & M1/M2, and achieving good results in these subjects.

- Consider best results in years 2023 and 2024 only.

- No interview except for special cases which we wish to get more information.
MYTHS ABOUT THE PROGRAMME

- I can take BEd&BSc as a stepping stone and transfer to BSc or other programmes in Year 2.
  No. There is no exit point for the BEd&BSc programme. Internal transfer would be subject to the approval of the offering departments, and there is no guarantee of success.

- I can be a Mathematics teacher after graduation from this programme.
  BEd&BSc does not offer Major in Mathematics. The programme aims to train qualified teachers in Science subjects in Hong Kong Secondary Schools. Whether graduates can be recruited as a Maths teacher, it would be subject to the contractual agreement between graduates and their prospective employers (i.e. the Schools). Students are advised to declare Minor in Mathematics and take more Maths electives to enrich their knowledge during the 5-year of studies and add colours to their portfolios.
BEd&BSc
Student Sharing

Derek Cho [Year 5 (Chem)]
Studying at HKU: BEd&BSc and I

CHO Siu Tong, Derek
BEd&BSc(V)
Four things to be finished in Uni

- Study
- Part-time
- Living in Hall
- Become an Exco
Study

BEd & BSc
Study
Study
Study
Part-time

Differentiated Instruction (DI) Inventory
Definition of Differentiated Instruction

Differentiated instruction is a teaching philosophy which contends that students learn best when learning environment, content, process, and product can be differentiated appropriately according to students’ learning abilities, interests, and learning profiles. A key goal of differentiated instruction is to maximise the learning potentials and outcomes of each student (Santangelo & Tomlinson, 2012; Tomlinson, 2005).

Cultural and Linguistic Diversity

What is CLD?

The total number of Non-Chinese Speaking (NCS) students in different sectors from pre-school to primary and secondary has increased in the last two
Living in Hall
Become an Exco
Four things to be finished in Uni

Study

Part-time

Living in Hall

Become an Exco
Thank you!
# Non-JUPAS Admissions

## IB

<table>
<thead>
<tr>
<th>Expected Lower Boundary for Admissions</th>
<th>32</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject Requirements</td>
<td>Grade 4 or better in one of the following subjects: Mathematics: Analysis and Approaches (HL/SL), Mathematics: Applications and Interpretation (HL/SL); and Grade 4 or better in one of the following subjects: Biology (HL/SL), Chemistry (HL/SL), Physics (HL/SL)</td>
</tr>
</tbody>
</table>

## GCE A-level

<table>
<thead>
<tr>
<th>Expected Lower Boundary for Admissions</th>
<th>3A (excluding Chinese and English language subjects, Critical Thinking, General Studies, Global Perspectives and Research, Knowledge and Enquiry, Project Work, Thinking Skills, and Extended Project Qualification)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject Requirements</td>
<td>Grade A or above in one of the following AL subjects: Mathematics, Further Mathematics, Pure Mathematics; and Grade A or above in one of the following AL subjects: Biology, Chemistry, Physics</td>
</tr>
</tbody>
</table>

For admissions standards of other qualifications, please visit: [https://admissions.hku.hk/apply/international-qualifications#admissions-standard](https://admissions.hku.hk/apply/international-qualifications#admissions-standard)