DR SAMUEL LEE MAO HUA

CHEMISTRY TEACHER, IB EXAMINER AND IB EVALUATION LEADER

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EXPERIENCE

Teacher of Chemistry

International School of Nanshan Shenzhen

Aug 2022 – Present · Shenzhen, China

- Teach IB Diploma Chemistry HL and SL (Grades 11 and 12) and MYP Chemistry (Grades 9 and 10)
- Built the Moodle and Notion courses for all four chemistry classes, with a daily exit ticket and a staged internal assessment guide
- Supervise chemistry extended essays and MYP personal projects; school mentor for a PGCE trainee
- Coach middle and high school badminton for ACAMIS, SISAC and PRC Conference tournaments

Teacher of Chemistry

Guangdong Country Garden School

Aug 2021 – Jul 2022 · Foshan, China

- Taught IB Diploma HL Chemistry, MYP Chemistry and IGCSE Chemistry
- Wrote lesson plans and analysed assessment data to refine the curriculum and assessments
- Led the badminton co-curricular activity with a structured training programme

A Level Chemistry Teacher (one academic year, taught online)

Private bilingual boarding high school

Aug 2020 – Jul 2021 · Shenzhen, China

- Taught Cambridge AS Level Chemistry (9701) and IGCSE Chemistry (0620) fully online to students aged 14 to 18
- Adapted teaching materials and digital resources for remote learning during the pandemic
- Used lesson observation data to adjust online teaching strategies

Teacher of Chemistry and Assessment Consultant

Desheng School (International)

Aug 2016 – Aug 2020 · Foshan, China

- Taught IGCSE and AS Level Chemistry from 2016, and IB Diploma HL Chemistry from 2017, with practical work built into each course
- Managed examination entries, scheduling and invigilation for IB and Cambridge sessions
- Coordinated the school badminton programme

Subject-Matter Expert, Chemistry

Furen International School

Jul 2015 – Dec 2015 · Singapore

- Revised the curriculum and assessments for Singapore-Cambridge H2, H1 and O Level Chemistry
- Supported teachers in aligning their teaching with the course goals, with quality checks on teaching materials

PROFILE

A chemistry teacher with thirteen years in international schools in Singapore and China, teaching the IB Diploma and Middle Years Programmes, IGCSE and A Level. Most of my students learn in a second language, so I plan each topic in more than one form and check understanding at the end of each lesson. I examine IB and Cambridge chemistry, led an IB programme evaluation visit in 2025–26 and mentor a trainee teacher. My doctoral research studied role play in IB Chemistry.

TEACHING QUALIFICATION

Qualified Teacher Status (QTS)

Department for Education, England, December 2023. Chemistry, ages 11 to 18. Assessment Only route, University of Sunderland.

EXAMINING AND IB ROLES

- **IB Diploma Chemistry examiner, Paper 2** · 2017 to present
- **IB Diploma Chemistry examiner, extended essay**
- **Cambridge International A Level Chemistry examiner** · 2019 to present
- **Led a programme evaluation visit to an IB World School** · 2025–26
- **Evaluation Leader training, 40 hours** · 2025
- **Workshop Leader training, 80 hours** · 2024

PUBLICATIONS

Role-Playing as a Teaching Strategy in IB Chemistry: A Mixed-Method Study

Journal of Educational Leadership and Innovation, 3(1), 2026

Author

Instructional Techniques within STEM Education

EARCOS Tri-Annual Journal, Winter issue, 2023

Author

Cambridge International AS & A Level Complete Chemistry

Oxford University Press, 2020

Contributing reviewer

Chemistry Teacher

Furen International School

Sep 2013 – Jul 2015 · Singapore

- Taught Singapore-Cambridge H2, H1 and O Level Chemistry, with laboratory-focused lessons
- Analysed examination scripts and gave feedback to refine teaching
- Managed the chemistry laboratory and its resources for the O Level practical examination

EDUCATION

Doctor of Education, Curriculum and Instruction

Fairview University College, Malaysia, 2026

Thesis: Learning through role-playing in International Baccalaureate chemistry: a mixed methods study of student engagement and conceptual understanding.

Master of Education in Advanced Teaching (Secondary)

University of the People, USA, 2021

Thesis on collaborative learning and achievement in secondary classrooms.

Postgraduate Certificate in Education (International)

University of Nottingham, 2019

Awarded with Distinction.

BEng (Hons) Chemical Engineering

Newcastle University, UK, 2013

Upper Second Class Honours.

Diploma in Chemical and Pharmaceutical Technology

Nanyang Polytechnic, Singapore

Cambridge International AS & A Level Chemistry: Exam Success Guide

Oxford University Press, 2021

Contributing reviewer

PROFESSIONAL DEVELOPMENT

- **Google Certified Educator, Level 1 and Level 2** · Google for Education, 2025
- **Gemini Certified Faculty and Gemini Certified Educator** · Google for Education, 2026
- **Introducing Artificial Intelligence into the Classroom** · University of Pennsylvania Graduate School of Education, 2024
- **Leading People** · Harvard Business School Online, 2026
- **Advanced Certificate in TEFL, 160 hours** · TEFL Fullcircle, accredited by ACCREDITAT, 2021
- **Second Step Child Protection Unit** · Committee for Children, 2025
- **CPR, AED and First Aid (adult, child and infant)** · National CPR Foundation, 2024 to 2026
- **IB Assessment for learning in the DP, Category 3** · 2023
- **IB DP Chemistry, Category 2 (new syllabus)** · 2023
- **IB Inquiry in the MYP, Category 3** · 2022
- **IB MYP Sciences, Category 2** · 2022
- **IB DP Chemistry: a focus on internal assessment, Category 3** · 2019
- **IB DP Extended essay in focus, Category 3** · 2019
- **IB DP Chemistry, Category 2 (online)** · 2018
- **IB DP Counselling, Category 1 and 2** · 2016
- **Cambridge IGCSE Chemistry Extended (0620) training** · 2016

LANGUAGE

English
Fluent, language of all my education

Mandarin Chinese
Proficient

Malay
Advanced

References, certified copies of certificates and lesson recordings are available on request. The teaching portfolio is at leemaohuasamuel.com/portfolio.