

Hong Kong – 19th July 2021

HKAGE Team Achieves Encouraging Results in Participation in The “Safe Cracking” International Physics Tournament 2021

The “Safe Cracking” International Physics Tournament (IPT) 2021 was held from the 23rd-25th May 2021 online. A total of 42 teams all over the world has participated in the virtual tournament this year. This competition was hosted by the Davidson Institute of Israel. In this tournament, high school students of each team need to design, build, and operate 1-2 locking mechanism (s) for a safe based on different principles of physics. These mechanisms must be sophisticated enough to keep the safe locked unless one deciphers the physics principles behind them.

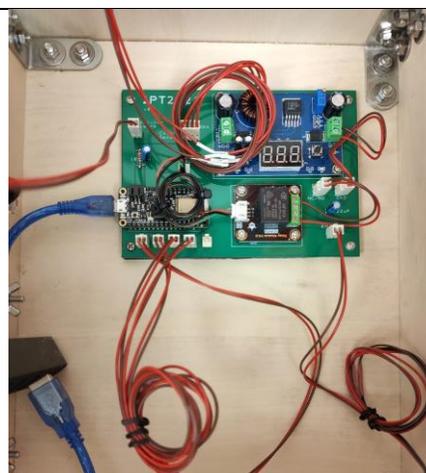
The HKAGE team is composed of five S4-S5 student members: **Joshua TSANG**, **Jenny JIANG**, **Mandy LAI**, **Nathan NG**, and **Terry CHAN**. From September 2020 – February 2021, the team developed a safe named “[The Lost Saber](#)” with 2 physics puzzles under the guidance and supervision of **Dr CHAN Mau Hing of Hong Kong Baptist University**. Puzzle 1 belongs to electric circuits: safecrackers need to maximise the energy storage in a capacitor network. Puzzle 2 belongs to optics: safecrackers need to produce a pink colour beam by mixing colours from two rainbows generated by two torches.

During the competition on 23rd and 24th May, the team attempted cracking other teams’ safes, guarded their safe against being cracked, and responded to judges’ questions. After several rounds of rigorous competition, the HKAGE team was awarded **three prizes** in the closing ceremony on 25th May: the **Overall Third Place in the Virtual IPT 2021**, the **First Place in the “Judges Pick” prize**, and the **Public’s Most Favourite Safe** in the Public Video Competition on the Davidson Institute website.

Learn more: <https://davidson.weizmann.ac.il/en/online/scienceducation/safe-cracking-international-physics-tournament-2021%E2%80%93digital-event>



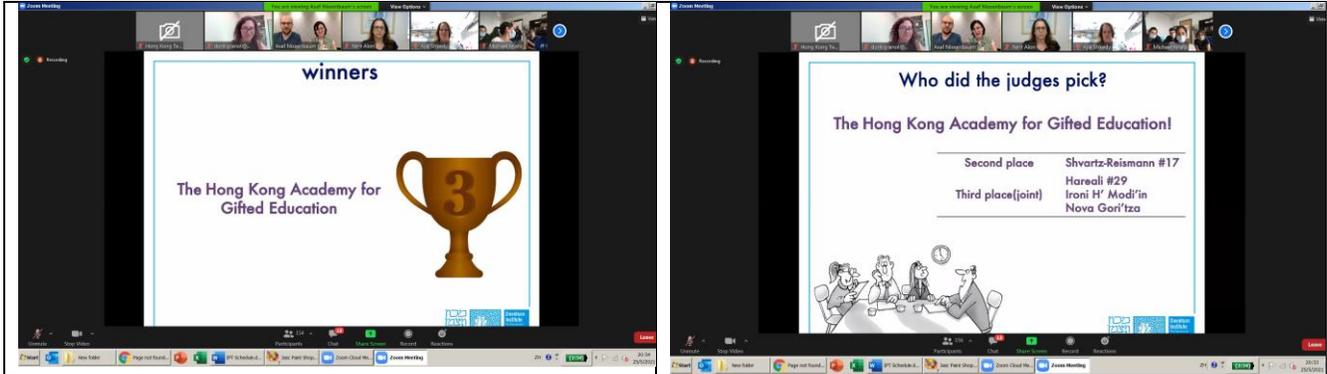
The safe developed by the HKAGE team – “The Lost Saber” (push the red button to start the challenge!)



Electronic components inside the safe.

香港資優教育學苑
The Hong Kong Academy for Gifted Education

Snapshot



Congratulations to our team awarded the **Overall Third Place in the Virtual IPT 2021** and the **First Place in the "Judges Pick" prize!**



The HKAGE team was presenting the mechanisms of their safe in the closing ceremony (start from left: Terry, Joshua, Mandy, Jenny, and Nathan).



The HKAGE team members were celebrating with the supervisor Dr Chan on the roof of Sir Run Run Shaw Building in Hong Kong Baptist University after the closing ceremony.

- End -

The Hong Kong Academy for Gifted Education, a subvented non-governmental organisation, was established in 2008. It aims at serving the education sector in Hong Kong, offering the latest information, support and appropriate learning opportunities to gifted students, their parents, teachers and other stakeholders engaged in gifted education. Most of its programmes are provided free-of-charge.