



# STEM your Monocular (SCIP1061)

<b>Introduction</b>	<p>In the Age of Sail from the 16<sup>th</sup> to the 19<sup>th</sup> century, the monocular telescope was a necessity for sailors. Do you know how a monocular telescope works? How far can you see with a monocular telescope? If you want to know the answers, why don't you make one yourself? This course aims at providing students with some knowledge of light through experiments in optics. For instance, the properties of light and different types of lens will be introduced. Having acquired such knowledge, students will apply it to make monocular telescopes. A powerful monocular makes the invisible visible.</p>
<b>Programme Type / Level</b>	<p>Optics Course (Level 1) (<a href="#">Token-required</a>)</p>
<b>Instructor(s)</b>	<p>Ms. Leung Kin Yi Promail</p>
<b>Pre-requisite</b>	<p>No special prerequisites are needed</p>
<b>Target Participants</b>	<p>➤ P4 – P6 HKAGE student members in 2019-20 school year only ➤ Class size: 30</p>
<b>Medium of Instruction</b>	<p>English with English handouts</p>
<b>Certificate</b>	<p><b>E-Certificate</b> will be awarded to participants who have: ❖ Attended <b>at least 3 sessions</b>; <b>AND</b> ❖ Completed all the assignments with <b>satisfactory performance</b></p>
<b>Intended Learning Outcomes</b>	<p>Upon completion of the programme, participants should be able to:</p> <ol style="list-style-type: none"> <li>1. Investigate the properties of light via optics experiments;</li> <li>2. Investigate different types of lenses via optics experiments;</li> <li>3. Find the focus of the lens experimentally;</li> <li>4. Explain the principle of simple telescope with optics concepts;</li> <li>5. Create and decorate their own telescope.</li> </ol>
<b>Application Procedure</b>	<p><b><u>This programme is Programmes with No Screening</u></b></p> <p>There are no screening questions, written test or other screening methods for this type of programmes.</p> <ul style="list-style-type: none"> <li>● Student members can select up to 5 programmes from a list of selection. Applicants have to state the priority when submitting the application. (1<sup>st</sup> priority, 2<sup>nd</sup> priority, 3<sup>rd</sup> priority, etc). 1 token is required for each programme (For programme list, please refer to the issue 17 of Gifted Gateway (<a href="#">click here</a>));</li> <li>● Application can only be submitted once. Once it is submitted, the priority and the programme selection cannot be changed;</li> <li>● If a student member removes a programme from the application before the application deadline by withdrawal, the choice priority will remain unchanged. (For example: A student has selected three programmes and removed the programme with the 1<sup>st</sup> priority from the application. The choices of 2<sup>nd</sup> and 3<sup>rd</sup> priority will remain unchanged with no promotion in priority.);</li> <li>● We will select the students based on the student's choice of priorities and a randomly generated selection by the computer system. If there is time clash between the applied programme and other programmes with offer, HKAGE will consider if the application will be accepted;</li> <li>● Priority will be given to student members who have not completed the applied programmes;</li> <li>● Student members should avoid applying programmes with time clash;</li> <li>● The decision of HKAGE on the result of selection should be final.</li> </ul>

Application Deadline **29 Jan 2020, 12:00 n.n.**

Application Result  
Release Date

**7 Feb 2020**

Student members may withdraw from the programme on or before the deadline. Otherwise, the token will be deducted.

### Schedule



Session	Date	Time	Venue
1	<del>16 Apr</del>	<del>9:30 a.m. — 12:30 p.m.</del>	<del>Physics Laboratory, Stewards Ma-Kam Ming Charitable Foundation— Ma Ko Pan Memorial College<sup>1</sup></del> <b>Zoom Meeting</b>
2	20 Aug	<del>1:30 p.m. — 4:30 p.m.</del>	
3	17 Apr	<b>9:30 a.m. — 11:30 a.m.</b>	
4	22 Aug	<b>2:30 p.m. — 4:30 p.m.</b>	

<sup>1</sup> Address: No. 17, Shek Pai Tau Road, Tuen Mun, N.T. ([Location](#))

### Enquiries



For enquiries, please contact us at 3940 0101 after language selection, press "1".

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