








# STEM your Monocular (SCIP1061)

<p><b>Introduction</b></p>	<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>
<p><b>Programme Type / Level</b></p>	<p>Optics Course (Level 1) (<a href="#">Token-required</a>)</p>
<p><b>Instructor(s)</b></p>	<p>Ms. Leung Kin Yi Promail</p>
<p><b>Pre-requisite</b></p>	<p>No special prerequisites are needed</p>
<p><b>Target Participants</b></p>	<p> <ul style="list-style-type: none"> <li>➤ P4 – P6 HKAGE student members</li> <li>➤ Class size: 30</li> </ul> </p>
<p><b>Medium of Instruction</b></p>	<p> English with English handouts</p>
<p><b>Certificate</b></p>	<p> <b>E-Certificate</b> will be awarded to participants who have:</p> <ul style="list-style-type: none"> <li>❖ Attended <b>at least 3 sessions; AND</b></li> <li>❖ Completed all the assignments with <b>satisfactory performance</b></li> </ul>
<p><b>Intended Learning Outcomes</b></p>	<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>
<p><b>Screening</b></p>	<p> Please answer the screening question in the online application form. *The screening question is designed to help the applicant understands the course level and the course content. The question must be answered by the student applicant and it can only be attempted once. The answer cannot be changed once the application is submitted. Selection is based on students' performance in answering the question. Only students who can demonstrate motivation and the basic knowledge of Physics in the screening question can be enrolled in the programme.</p>
<p><b>Application Deadline</b>     <b>11 Feb 2019</b></p>	<p><b>Application Result Release Date</b>     <b>22 Feb 2019</b></p>
<p>If student members withdraw from the programme after the Application Deadline, the token will be deducted.</p>	

## Schedule



Session	Date	Time	Venue
1	23 Apr	9:30 a.m. – 12:30 p.m.	Physics Laboratory, Stewards Ma Kam Ming Charitable Foundation Ma Ko Pan Memorial College <sup>1</sup>
2			
3	24 Apr	1:30 p.m. – 4:30 p.m.	
4			

<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".

SCIENCES

科學