

**Dunman Secondary School**  
**Direct School Admission- STEM Talent Development Programme**

**Introduction**

The mission of Dunman Secondary School STEM Talent Development Programme (STEM-TDP) is to “nurture young STEM innovators who can impact the community through their solutions.” This is in line with the school’s mission of “nurturing self-directed and inquisitive Dunmanites to lead change in the communities”.

To achieve this mission, the programme develops and equips them with scientific inquiry, research and computer programming skills (such as coding) through the Design Thinking process. Students will have opportunities to apply these skills via school and community projects such as the Eco Stewardship and Values-In-Action (VIA) projects. In essence, students apply their knowledge to solve authentic problems and bring positive changes to communities.

Students take up leadership roles as STEM Student Ambassadors and organising STEM-related events such as the STEM Introductory Class, STEM Exploratory Experience, etc. They will also have the opportunity to serve as a STEM Advocate who may be involved in school outreach programmes with partners. In addition, students can gain exposure and hone their skills and knowledge through various competitions held at the national level. These competitions include Singapore Science and Engineering Challenge, National STEM Challenge, Science Olympiads, Mathematics Olympiads and Young Innovator Challenge, etc. In summary, the programme aims to develop impactful innovators with future-ready STEM skills and community at heart.

## Selection Process

Category	Selection Criteria	Remarks
STEM Challenge	<p>Students are required to perform on-site graded STEM task within an hour.</p> <ul style="list-style-type: none"> <li>• Able to demonstrate creativity and analytical skills</li> <li>• Able to present confidently</li> <li>• Able to articulate ideas clearly</li> <li>• Able to propose practical and feasible solution</li> <li>• Able to demonstrate analytical skills</li> </ul>	This is a pre-requisite for the selection of potential students for the interview session
Interview	<p>STEM awareness</p> <ul style="list-style-type: none"> <li>• Aware of current affairs related to STEM</li> <li>• Connect and apply knowledge from different disciplines to solve contemporary issues.</li> <li>• Demonstrate a sound understand of Science concept</li> </ul>	<ul style="list-style-type: none"> <li>• Only shortlisted applicants will be notified via email of the date and time to attend the interview.</li> <li>• The process will be done with an interview panel to determine the applicant's suitability.</li> </ul>

## Selection Criteria

Category	Primary School Records	Evidence
Conduct & Attitude	<ul style="list-style-type: none"> <li>• Applicants must have a 'Very Good' conduct grade for Primary 5 and 6.</li> <li>• Testimonials and referral letters are welcomed.</li> </ul>	Photocopy of students' report book on relevant segment
Academic results	<ul style="list-style-type: none"> <li>• Achievement levels for Math <b>and</b> Science must be at least 3 or below</li> </ul>	
STEM experience	<ul style="list-style-type: none"> <li>• Applicants with programming (such as coding) experience or have participated in STEM-related competitions will be given special consideration.</li> </ul>	<p>Photocopy of the relevant programme course/ workshop</p> <p>Photocopy of relevant certification or competition experience</p>