

Ebenezer New Hope School
2016-2018 STEM Work Plan

Objectives	Strategies	Monitoring / Assessment	Proposed expenses
<p>1. To cultivate students' interest in science, to understand the current application of science and technology and master the process of scientific skills, and thus establish a broad and solid knowledge base.</p>	<ul style="list-style-type: none"> ● STEM learning themes such as "Life and Living", "The Material World", "Energy and Change" and "The Earth and Beyond" will be conducted in General Studies/ Liberal Studies lessons. ● Related topic outdoor trips, such as visiting the Hong Kong Science Museum, planetarium, Hong Kong Science Park 	<ul style="list-style-type: none"> ● General Studies/ Liberal Studies learning record ● STEM Learning Assessment Form ● Outing records 	<p>Government Funding: <u>Total: \$100,000</u> (ended in 2018.8.31)</p> <p>By sub-title:</p> <ol style="list-style-type: none"> 1. Admission and transportation fee for Outings. <u>\$ 9600</u> 2. Teaching aids and books CD <u>\$10000</u>
<p>2. To nurture students' creativity, logical thinking, collaborative learning and independent problem-solving skills through different activities</p>	<ul style="list-style-type: none"> ● The annual Project-based Learning focuses on themes such as "Life and Living", "The Material World", "Energy and Change" and "Scientific Investigation". ● Among the diversification activities of Year 2017-18, the activity group called "Little Scientists" will conduct different scientific experimental activities ● During project learning, students are encouraged to develop creative thinking, logical thinking, 	<ul style="list-style-type: none"> ● Learning record of Project Learning ● STEM Learning Assessment Form ● Diversification activities record 	<ol style="list-style-type: none"> 3. Experimental teaching materials <u>\$10000</u> 4. Development of Virtual Reality (VR) and purchase of its appliances (including VR headset and design of simulation games, e.g. simulated shopping

	collaborative learning and independent problem-solving skills		procedures, and on street routes to bus stop or MTR station: <u>\$70400</u>
3. Students experience the experimental process through scientific activities and thus to learn data collection, use of measuring instruments and the ability to summarize the results	<ul style="list-style-type: none"> ● More STEM learning themes such as “Data Collection”, “Measuring Instrument”, “Comparison and Classification” will be introduced in the Mathematics lesson. ● Among the diversification activities of Year 2017-18, the activity group called “Little Scientists” will conduct different scientific experimental activities 	<ul style="list-style-type: none"> ● Mathematics learning record ● Diversification activities record ● STEM Learning Assessment Form 	
4. To enhance students' scientific literacy and to establish healthy values and attitudes on issues such as environmental protection, ecology and energy.	<ul style="list-style-type: none"> ● STEM learning themes such as “Society and the Environment” will be introduced in General Studies/ Liberal Studies lessons. ● Related topic outdoor trips, such as visiting the Jockey Club Museum of Climate Change (MoCC), T · PARK, and the Hong Kong Wetland Park 	<ul style="list-style-type: none"> ● General Studies/ Liberal Studies learning record ● STEM Learning Assessment Form ● Outing records 	