

Evaluation Report for Diversity Learning Grant 2020-2021

Programme Title	Objective	Target (No./level/selection)	Duration / Start Date	Deliverable	Evaluation	Expenditure
STEM	<ul style="list-style-type: none"> • To introduce research and development experience through synthetic biology. • To introduce basic chemistry, bio chemistry and molecular biology • To introduce more real world lab experience by teaching lab skills such as PCR, transformation, gel electrophoresis • To conduct Synthetic Biology case investigation 	<ul style="list-style-type: none"> • Three s4 students will be representing school to join IGEM competition • Nominated by Science teachers • 10 students (s4 or s5) 	20 lessons in half year from Oct (two lessons per week)	One assignment (either reading or writing) for each lesson	<p>Students could understand and analyse the assigned article with the skills learnt and provided relevant explanation.</p> <p>The attendance was high and the performance was satisfactory.</p> <p>Most students displayed willingness to engage in self-directed learning for in-class discussion.</p> <p>Students realized moral and ethical issues behind synthetic biology research.</p>	<p>Nanodrop machine: \$51,600</p> <p>-80°C Refrigerator: \$ 9,495</p> <p>Pressure canner: \$ 2,537</p> <p>Horizontal gel electrophoresis tank: \$ 2,600</p> <p>Centrifuge: \$8,000</p> <p>Micro volume pipette: \$11,830</p> <p>PCR machine: \$42,000</p>