

Faculty – iSTEM	Stage 5 – Year 9 iSTEM	Topic: Individual programming task
<p>Task Description:</p> <p>This task is for you to create a robot program that will allow you to navigate a course that includes some extra features. You are to design and create a device that can be towed by the robot that allows it to carry a mobile phone to take pictures.</p> <p>You will not be given the details of the track, measurement and directions. To achieve maximum points you will have to be successful one your first attempt, ort what is deemed to be your first attempt.</p> <p>You will be allowed to modify and create new features for you second and consequent attempts. Less points will be awarded for each attempt.</p> <p>Weighting: 30%</p>		
<p>Date Given: Week 8 Term 1</p>		<p>Date of Completion: Week 2 Term 2</p>
<p>Outcomes to be Assessed:</p> <p>5.1.1 develops ideas and explores solutions to technological and engineering based problems 5.1.2 designs and investigates different approaches in the development of engineered solutions 5.4.1 uses mathematical, scientific and graphical methods related to technology and engineering 5.4.2 develops skills in using mathematical, scientific and graphical methods whilst working as a team 5.6.2 will work individually or in teams to solve problems in technological and engineering contexts</p>		
<p>Task Guidelines:</p> <p>You will be expected to:</p> <ul style="list-style-type: none"> • Create a program for a Sphero that traverses a track with and attached cart. • Submit a design folio for the cart to show how you designed your cart. 		
<p>Penalties:</p> <p>Failure to complete the task with a sustained and diligent effort or because you are absent may lead to:</p> <ul style="list-style-type: none"> • A zero mark • The issuing of a warning letter explaining that you have not met the course learning outcomes according to the requirements of the NSW Board of Studies 		
<p>Please note: that plagiarism, the using of the work of others without acknowledgement, will incur serious penalties and may result in zero award. Any cheating will also incur penalties.</p>		