



YEAR 6 INFORMATION TECHNOLOGY WORK PLAN: Semester 1, 2017 – Ricky Sinclair

| UNIT | TERM 1 TOPICS | ASSESSMENT | DUE DATE |
|------|--|---|--|
| | <p>Programming - Game Design</p> <p><i>Students will learn to use a graphical programming language to design a game</i></p> <p>Design, modify and follow simple algorithms represented diagrammatically and in English involving sequences of steps, branching, and iteration (repetition)</p> <p>Design a user interface for a digital system, generating and considering alternative designs</p> <p>Implement digital solutions as simple visual programs involving branching, iteration (repetition), and user input</p> <p>Explain how developed solutions and existing information systems are sustainable and meet local community needs, considering opportunities and consequences for future applications</p> | <p>Design, Develop and Evaluate an Interactive Game using <i>Scratch</i></p> | <p>Hand out Week 5 Week Commencing 20/02/2017</p> <p>Monitor Week 7 Week commencing 06/03/2017</p> <p>Due Week 9:</p> <p>6C Tuesday 21st of March Lesson 5</p> |
| UNIT | TERM 2 TOPICS | ASSESSMENT | DUE DATE |
| | <p>Programming - EV3 Robotics</p> <p><i>Students will be given a range of problems to solve using the LEGO EV3 robots and their programming skills</i></p> <p>Analyse and visualise data using a range of software to create information; and use structured data to model objects or events</p> <p>Design algorithms represented diagrammatically and in English; and trace algorithms to predict output for a given input and to identify errors</p> <p>Design algorithms represented diagrammatically and in English; and trace algorithms to predict output for a given input and to identify errors</p> <p>Create and communicate interactive ideas and information collaboratively, taking into account social contexts</p> <p>Plan and manage projects, including tasks, time and other resources required, considering safety and sustainability</p> | <p>In class practical activities from the <i>Robotics Workbook</i> and <i>Robotics Exam</i></p> | <p>Hand out Week 1 Week commencing 23/01/2017</p> <p>Monitor Week 5 Week Commencing 20/02/2017</p> <p>Exam held, activities and booklet due Week 9:</p> <p>6C Tuesday 13th of June Lesson 5</p> |

This work plan was last updated on Wednesday, 1 February 2017. The contents are subject to change – students will be advised in advance of any changes - regularly check for updates.