

CURRICULUM OVERVIEW FOR YEAR 8 – COMPUTING SETS 1-3

| Term | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|--|--|---|--|---|---|---|
| Topic | Programming Using App Inventor | How Computers Work | Pseudocode and Python Introduction | Mini Enterprise Project | Digital Images – Vector Graphics | Digital Images – Bitmap Graphics |
| Knowledge | Stages in development cycle App Inventor programming language basics | Understanding the internet and www. How information flows around a network | How to sequence instructions using structured English Basic Python language | Financial and promotional techniques, audience and purpose | Definition and Uses of vector graphics, tools used in vector image creation and editing, file formats | Definition and Uses of bitmap graphics, tools used in bitmap image creation and editing, file formats |
| Skills | Designing, programming, testing and evaluation of simple Apps Annotation techniques | Research, effective presentation of findings (eg report/presentation) | Programming using Python, including on Microbits | Spreadsheet, Word Processing, DTP, written communication, verbal communication, image editing techniques, demonstration of audience awareness and fitness for purpose, application of financial terminology | Creating, editing and use of vector images | Creating, editing and use of bitmap images |
| Key Marked Piece (Summative Assessments in bold) | End of Unit Assessment Sheet reviewing evidence produced during the unit | End of Unit Assessment Sheet reviewing evidence produced during the unit | End of Unit Assessment Sheet reviewing evidence produced during the unit | End of Unit Assessment Sheet reviewing evidence produced during the unit Mid Year Exam 50% written, 50% electronic (multiple choice) | End of Unit Assessment Sheet reviewing evidence produced during the unit | End of Unit Assessment Sheet reviewing evidence produced during the unit End of Year Exam 50% written, 50% electronic (multiple choice) |
| Vocabulary | Design, Program, Test, Sequence, Selection, Iteration, List, Random | World wide web, internet, IP, server, | | Moving image, print media, demographics, audience, purpose, goal seek, profit/loss | Vector, pen tool, ellipse, anchor points, manipulate, fill, layers, free transform, scale, rotate | Bitmap, pixel, effects, manipulate, fill, layers, free transform, scale, rotate |