

Satit Prasarnmit International Programme

Curriculum Statement Term 3: 2020/2021

Secondary

Key Stage 3

Year 8 ICT



Cambridge Assessment

Course Content

In term 3, students will learn to program in Python and focus on developing programs. Then, they will learn about computer thinking, predictions and intelligence. Inputs, processes and outputs will be covered in detail, along with programming concepts like testing, iteration and sub-programs. Data types, storing components, algorithms and the Turing Test will also be part of the syllabus.

In addition, in the last unit, students will learn about recursion and factorials and learn to use them in developing programs. They will also learn to implement the fibonacci series and golden ratio in both Scratch and Python.

Resources

- Compute-IT Book 2 Hodder Education by Mark Dorling and George Rouse,
- 2. Unit 8 How to make a computer appear smart: 108-137
- 3. Unit 9 Recursive patterns: 138-152
- 4. Dynamic Learning online resources
- 5. Worksheets

Assessment

- Class Assessments (20%)- Think-IT Tasks, Activities and Exam-Style Questions •
- Homework (20%)- Compute-IT Tasks, Plan-IT Tasks, Worksheets and Quizzes
- Periodical Testing (40%)- End of Unit Tests
- Practical Testing (20%)- Practical Tests

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