

KESTEVEN AND SLEAFORD HIGH SCHOOL

Computer Science Scheme of Learning

Year 10 – Term 6



Intent – Rationale

The focus for this term is to complete a substantial and independent programming project as per the specification.

Sequencing – what prior learning does this topic build upon?	Sequencing – what subsequent learning does this topic feed into?
<ul style="list-style-type: none">• Y8 and Y9 Programming Topics• Y10 Terms 1-5	<ul style="list-style-type: none">• Y11 Examination Paper Preparation• A-Level Computer Science programming units and NEA
What are the links with other subjects in the curriculum?	What are the links to SMSC, British Values and Careers?
<ul style="list-style-type: none">• N/A	<ul style="list-style-type: none">• GB4c, GB4d and GB4e
What are the opportunities for developing literacy skills and developing learner confidence and enjoyment in reading?	What are the opportunities for developing mathematical skills?
<ul style="list-style-type: none">• GCSE Computer Science NEA Programming Guide: Python Edition by Alan Milosevic (Author), Dorothy Williams (Author) <i>(Note: Although the NEA has been removed from J277 the course still requires that students complete a similar task/range of tasks)</i>	<ul style="list-style-type: none">• N/A

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Intent – Concepts

What knowledge will students gain and what skills will they develop as a consequence of this topic?

Know

- Understand how to apply a waterfall lifecycle to analyse, design, build, test and evaluate/refine a chosen project.
- Understand how to prepare and present suitable evidence in the form of a project report containing: success criteria, pseudocode, test plan, test evidence and evaluation

Apply

- Be able to independently complete and document a substantial programming project, drawing upon their prior programming experience of modular programming techniques and wider resources.

Extend

- Extend their programs beyond the set tasks to include more advanced features including regular expressions, try and except, database integration and

What subject specific language will be used and developed in this topic?

- Project report
- Waterfall lifecycle
- Analyse
- Requirements
- Success criteria
- Qualitative
- Quantitative
- Design
- Evaluate

What opportunities are available for assessing the progress of students?

- Teacher-assessment of completed programming project and accompanying project report

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Intent – Concepts

Lesson title	Learning challenge	Higher level challenge	Suggested activities and resources
			See P drive for lesson presentations/resources