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| **Core Knowledge Map** |
| Subject: Computer Science | Year: 9 | Term: 2.0 |
| What are we learning? |
| How to create more complex code in PythonWhat the main structures of programs are |
| How will I be assessed  |
| There will be a checklist of things you have done, and a Word or PowerPoint document showing screenshots of your Python code and the output it generates. |
| Big questions: |
| What are the key concepts of programming a computer?How are programs constructed to work efficiently? |
| How does this build on previous learning? | How will this link to my future learning? |
| This will build on previous knowledge from the Introduction to Python topic | The programming skills from this topic are the basis for all computer coding, and will be useful for GCSE and beyond |
| Core knowledge: | Key vocabulary: |
| That the 3 main concepts for programming are:Sequencing* Carefully choosing the order for commands to be given in…

Iteration* Loops using either:
	+ for i in range(0,10,2):
	+ while i<=10:
* the difference between fixed and conditional loops

Selection* using ‘if’ statements to compare variables and choose different outcomes

Using procedures and functions to control code order | SequenceIteration/loopSelection/ifElseElifDefProcedureFunctionIDE |
| Need more help? |
| 1. [Welcome to Python.org](https://www.python.org/)
2. [Python Tutorial (w3schools.com)](https://www.w3schools.com/python/)
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