



The Physical & Natural World 2027

Students will engage with Python syntax and programming in connection with community and industry. Students will explore the wide-ranging applications of Python across industries in the world of programming and technology.

Students who select this subject will have a passion for coding. Students will work actively to develop their ICT capabilities, through script writing, while learning the fundamentals of programming using Python syntax. Students will apply logic and problem-solving skills while learning syntax, developing their Critical and Creative Thinking capabilities throughout this process.

Students will explore the efficiency and flexibility of Python and its applications to industry, including software development, data science, web development, game development and automation. Undertaking a subject focused on Python equips students with a solid foundation in programming with a focus on practical skills. This course will assist aspiring programmers, data analysts, or researchers, to gain proficiency in Python.

What is Python?

Python is a popular programming language used for:

- web development
- software development
- game development
- automation
- system scripting



SEATON
HIGH SCHOOL

ENTREPRENEURIAL
SPECIALIST SCHOOL

What are the Applications of Python?

Python has a range of applications in industry, it can be used:

- on a server to create web applications
- to connect to database systems
- to handle 'big data'
- to perform complex mathematics
- for production-ready software development