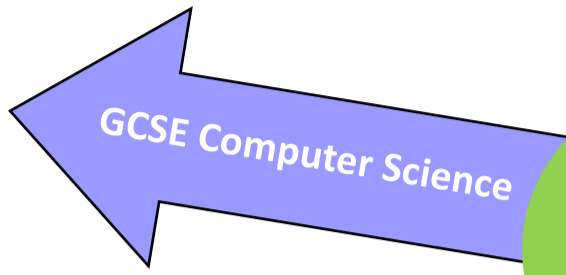


The Piggott School

Year 7 and 8 Computing Journey



YEAR 9



Lots of competitions, workshops, events and trips to industry.

Bebras Challenge, CyberDiscovery, CyberFirst Girls, Microsoft Digigirlz, Cisco, Oracle KidsInIT.



Data Representation 2

You will learn to do **Binary Addition** and about **Logic Gates**. You will also learn about **vector and bitmap images, sound and compression**.

Programming 3

Learn **advanced Python** programming skills

Careers 2—this is about you!

Discover how Computing can help you have an exciting career in **any subject/field**

Design websites

An exciting unit teaching you about **Audience and Purpose, Visual Hierarchy**, and designing professional **websites**.

YEAR 8

8

Exciting and challenging curriculum

Linked topics in year 7 and 8 to increase depth of knowledge.

Digital Literacy 2

You will be learning about legalities surrounding important topics like **Cyberbullying, Sexting and Copyright infringement and Identity Theft**.

Programming 2

Extend your horizons. Learn about art in other cultures! Then write Small Basic code to generate your own art forms and also learn about **binary images**

Computational Thinking 2

More popular algorithms: **bubble sort** and fun with some very popular algorithms

Communication 2 - Networking

You will learn how **computers and other devices communicate with one another** building on from communication unit in Year 7

Years 7 & 8 programming clubs



Lots of opportunities to improve core IT skills in MS Office products like PowerPoint, Word and Excel, embedded in curriculum

Cyber security

This a pressing topic in society today. You will become aware of common **threats to your PC** and a variety of **cyber crimes and prevention** measures.

Data Representation 1

You will understand how **all data (numbers, text, sounds, pictures) can be represented** and manipulated digitally in the form of binary digits

Computational Thinking 1

You will be learn about the **role that algorithms play in the real world** and having fun with some very **popular algorithms**

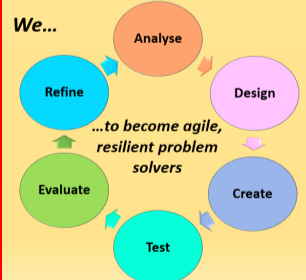
Careers 1

You will learn about various **exciting careers in the field of Computing/ IT**

YEAR 7

7

Our vision



Resilient and reflective problem solvers.

Hardware & Communication 1

You will learn about the **different parts that make up a computer** and different **modes of communication** like Ethernet, WiFi, Bluetooth, routers, hubs, switches etc.

Digital Literacy 1

You will be developing your Digital Competency and Literacy skills like learning how to **send emails, organise your files and folders, Digital Footprint and E-Safety**

Designing Algorithms

You will be learning how to plan and design algorithms using **flowcharting** as a tool

Programming 1

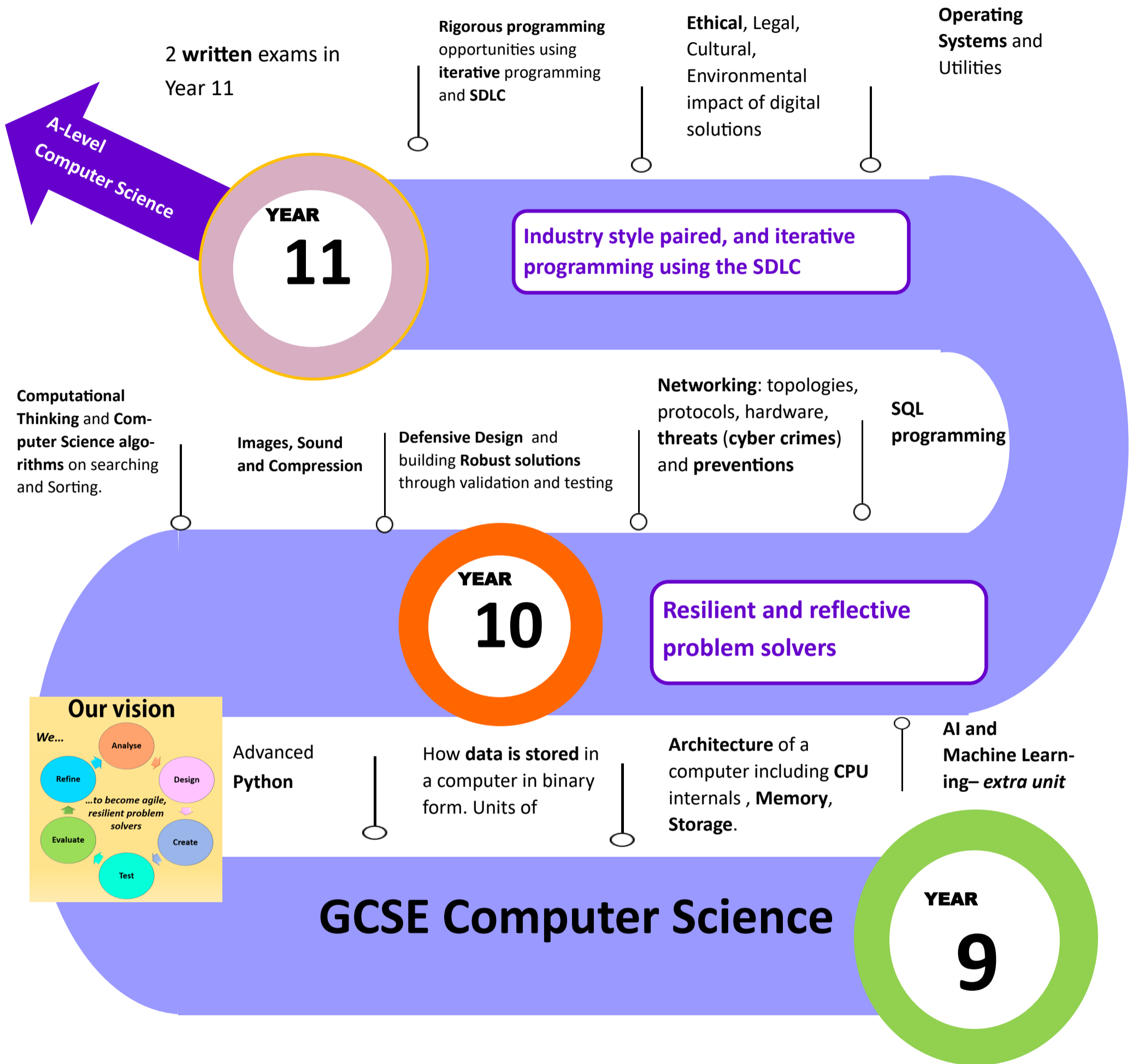
You will be learning text based programming using languages like **Python and Small Basic**

Creating Games

You will **create games** using **Construct** software

The Piggott School

Year 9-11 (GCSE Computer Science)



The Piggott School

A-Level Computer Science

