1 Welcome To ICT

3 IDEA Award (BRONZE)

4 Understanding Computers

6 Coding Concepts (Code.org)

2 Digital Literacy

5 Image Editing (Photoshop)

1

Welcome To ICT

An Introduction to the School ICT Network procedures, expectations and health & safety

2

Digital Literacy

Introducing students to E–safety, Cyber Security and the concept of navigating the "online world".

3

IDEA Award (BRONZE)

An online, interactive platform. Students complete badges that earn points that then when totalled issue a Bronze / Silver certification. The certificate is recognised by Colleges and Universities.
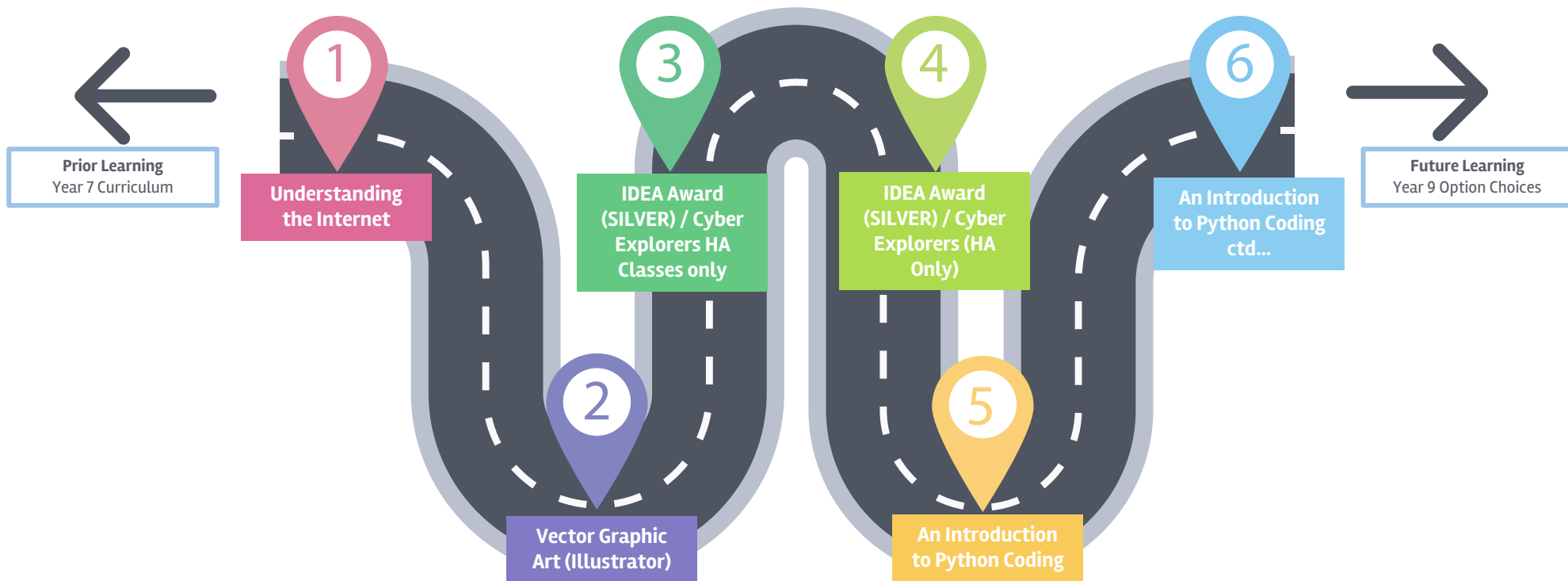
4

Understanding Computers

Students learn the basics of computer devices (the 4 processes that need to be met), Diverse types of computers that they interact with daily and their uses, Computer Components, Computer Peripherals, The responsible use of (Health and Safety).

5

Image Editing (Photoshop)

Students will learn the process of editing and manipulating images (and the Ethical considerations .) using the Adobe Photoshop. Students will then make improvement and manipulate their own images.

6

Coding Concepts (Code.org)

Students learn the fundamentals of programming by completing lesson tasks that will create a functioning working p block program. They will develop problem–solving skills by working though different ability challenges.

Saint Joseph's
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LEARNING JOURNEY COMPUTING YEAR 7

1
Understanding the Internet

3
IDEA Award (SILVER) / Cyber Explorers HA Classes only

4
IDEA Award (SILVER) / Cyber Explorers (HA Only)

6
An Introduction to Python Coding ctd...

2
Vector Graphic Art (Illustrator)

5
An Introduction to Python Coding

1

Understanding the Internet

Students learn the origins, development and use of the Internet and World Wide Web. From the very beginning to its' use in society

2

Vector Graphic Art (Illustrator)

Students learn about vector images, understanding their format. Introduced to new software, Adobe Illustrator Software. Then create a variety of images from a project brief.

3

Understanding Binary

Students learn the binary system (0's and 1's). Understand why we use binary and how a computer reads and manipulates binary code to run programs, create images and send information.

4

IDEA Award (SILVER) / Cyber Explorers (HA Only)

IDEA Award: an online, interactive, immersive platform that has a reward system. Students' complete badges that earn points that will earn them a Silver certification.

Cyber Explorers: an online, interactive, platform that seeks to enable students learn skills that are linked to real world technological situations.

5

An Introduction to Python Coding

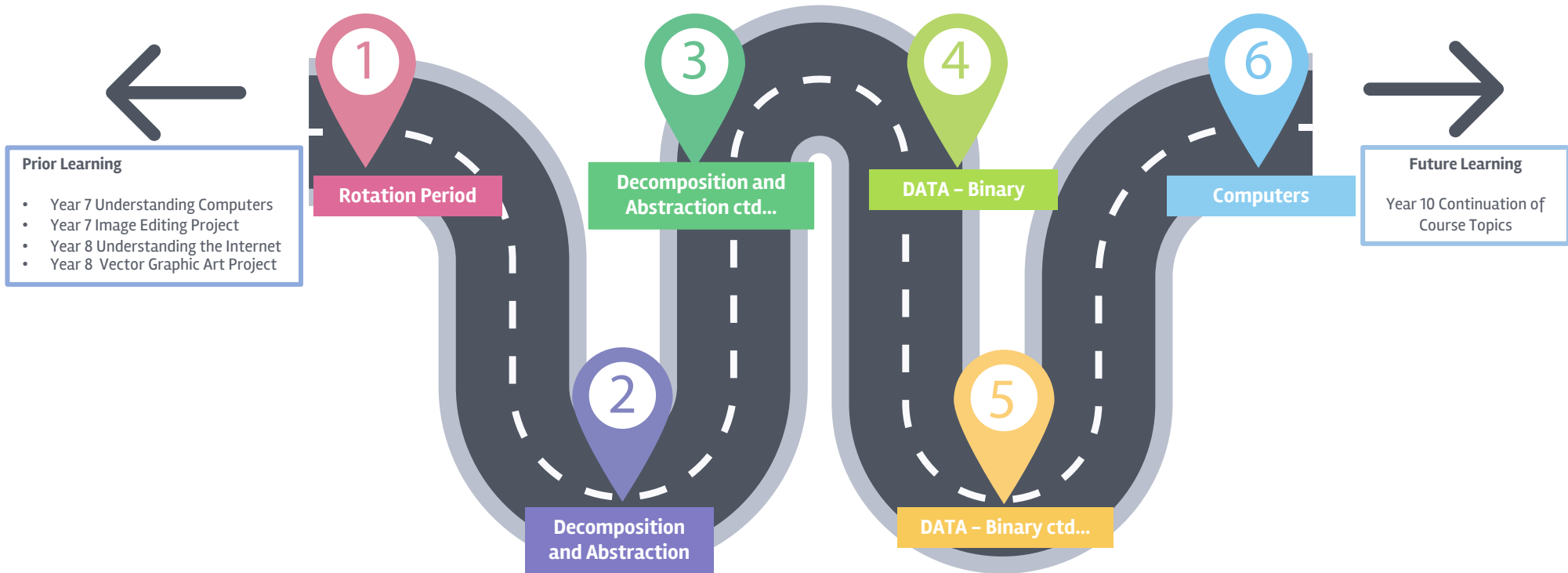Students learn the basic concepts of the coding language Python. Learning to understand the coding concepts and write basic Python programs.

6

An Introduction to Python Coding ctd...

Students will continue to learn the basic concepts of the coding language Python.

Revisit iDEA Award to finish off outstanding badges and complete the Silver Certification.

1 Rotation Period

3 Decomposition and Abstraction ctd...

4 DATA – Binary

6 Computers

2 Decomposition and Abstraction

5 DATA – Binary ctd...

1 Rotation Period

EDEXCEL Computer Science

Students are given a 'taste' of what will be covered in the GCSE Computer Science Curriculum. Being introduced to the different topics to be covered and an introduction to the Python Coding Language.

2 Decomposition and Abstraction

3 Decomposition and Abstraction ctd...

Students learn what algorithms are, Understand what algorithms are used for and how they work to complete a task or computer program. Students will be able to follow, amend and write algorithms; Able to construct truth tables.

4 DATA – Binary

5 DATA – Binary ctd...

Students learn binary, Denary, Hexadecimal. Understand data representation (text, images and sound) Understanding data storage and compression (formats, Specific components, dealing with memory recording)
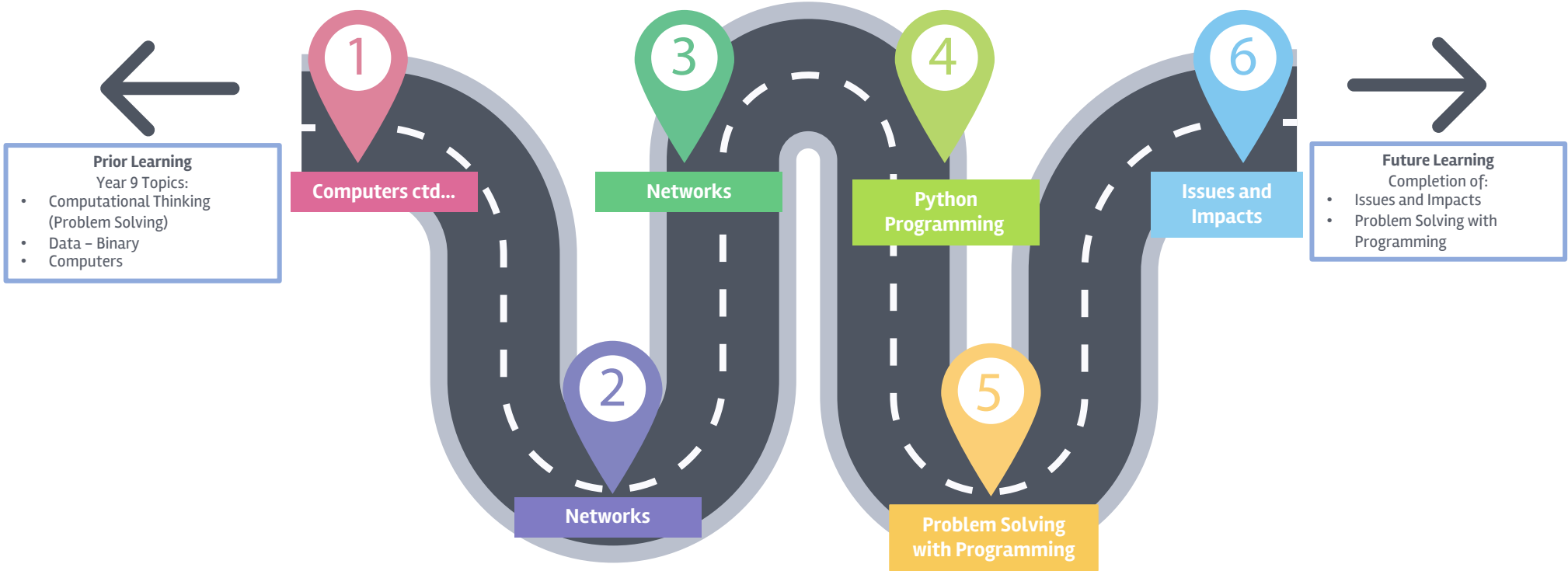
6 Computers

Students learn the difference between hardware and software. The Architecture of the computer system. Continuation from Unit B 'Data', general components of computer systems Know the characteristics of programming languages (High Level, Low Level, Machine Level)

LEARNING JOURNEY   Saint Joseph's CATHOLIC SCHOOL   COMPUTER SCIENCE YEAR 9

1 Computers ctd...

3 Networks

4 Python Programming

6 Issues and Impacts

2 Networks

5 Problem Solving with Programming

→

1

Computers ctd...

Students learn the difference between hardware and software. The Architecture of the computer system. Continuation from Unit B 'Data', general components of computer systems Know the characteristics of programming languages (High Level, Low Level, Machine Level)

2

Networks

Students learn about the different computer networks used at home and in a business environment (types of topologies and layout). Understand the threats to network security and have / know the measures required to help secure networks from threats.

3

Networks

4

Python Programming

Continued learning of Code development using Python.
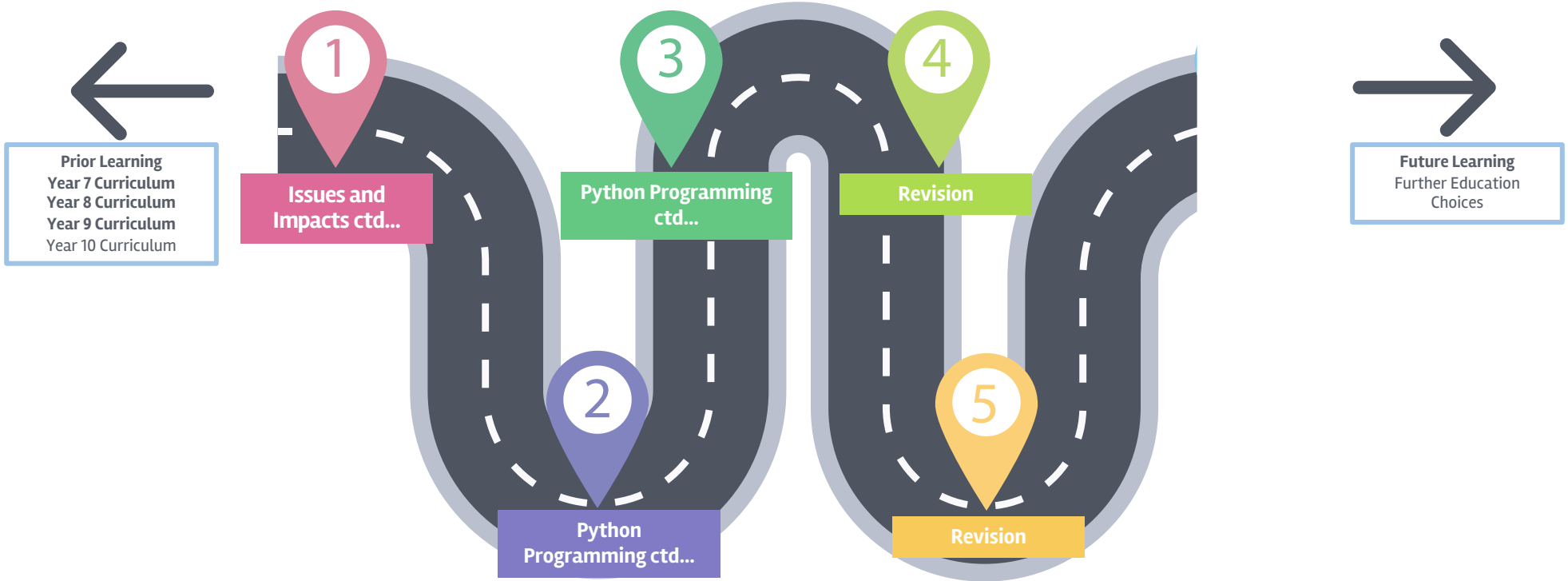
5

Problem Solving with Programming

Students will learn the common coding errors that occur during writing programs.

6

Issues and Impacts

Students learn the impacts that technologies have on the environment.

LEARNING JOURNEY   Saint Joseph's CATHOLIC SCHOOL   COMPUTER SCIENCE YEAR 10

1

Issues and Impacts ctd...

2

Python Programming ctd...

3

Python Programming ctd...

4

Revision

5

Revision

1

Issues and Impacts ctd...

Students learn the ethical, legal and ownership issues surrounding technology, data and privacy.

2

Python Programming ctd...

Students will continue to learn the main functions of Python Programming required to fully access Paper 2 of the course

3

Python Programming ctd...

4

Revision

Students will go back over the previous topics:
- Computational Thinking (Problem Solving)
- Data – Binary
- Computers

5

Revision

Students will go back over the previous topics:
- Networks
- Issues and Impacts
- Problem Solving with Programming

LEARNING JOURNEY   Saint Joseph's CATHOLIC SCHOOL   **COMPUTER SCIENCE YEAR 11**