Holy Family Catholic High School

Subject	Year	Term
Computer Science	**10 and 11**	**Constant**

Topic

Producing Robust Programs

Content - Intent

Prior Learning (Topic): Key Stage 3 National Curriculum

The understanding of the issues a programmer should consider to ensure that a program meets the needs of a set task and is able to deal with issues that occur. Pupils will create code that is able to be maintained and allows for validations

The purpose of testing code and using suitable test data. Being able to identify syntax and logic errors and the differences between them.

Future Learning: Networks, Programming, Algorithms

What Knowledge and Skills will be Taught (Implementation)	How will your understanding be assessed and recorded (Impact)
Input validation and how to add this to programs. Being able to maintain a program through the use of Sub Programs, Naming Conventions, Indentation and Commenting.	A series of problems from past exam papers, attempted in class and marked in class using peer assessment. Coding questions and solutions.
How to test data using different forms of testing such as Iterative and Final Testing. Selecting suitable test data from Normal, Boundary and Invalid/Erroneous for a given scenario. Being able to produce and complete a test plan.	A series of problems from past exam papers, attempted in class and marked in class using peer assessment. Coding questions and solutions.

How can parents help at home?

Parents can help by ensuring revision and homework is completed.

Helpful further reading and discussion (Including reading and Vocabulary List)

Reading	**Vocabulary List**	
CGP Computer Science revision book	Defensive Design	Final/Terminal Testing
GCSE pod	Input Validation	Syntax
Smart Revise	Maintainability	logic errors
Computer Science UK	Indentations	Test Data
Teach ICT	Commenting	Normal
ISAAC Computing	Testing	Boundary
YouTube – Craig ‘n’ Dave	Iterative Testing	Invalid/Erroneous