



Edenfield C E Primary School

Medium Term Plan - Sequence and Progression

Subject: Computing

Unit: Year 6 – Computational Thinking

Key Vocabulary

- Programming
- Command
- Simulation
- Variable
- Sequence
- Algorithms
- Decomposition
- Selection
- Reasoning
- Repetition

Lesson Sequence

1. LO: To understand what a procedure is and use it in a program
2. LO: To understand the need for accuracy when writing a program
3. LO: To use decomposition to create a program
4. LO: To design and test programs to control robots
5. LO: To use reasoning to develop strategies that can be used to debug
6. LO: To use programming to solve specific goals
- 7.
- 8.
- 9.

By the end of the unit pupil will know:

- Know the meaning of the key terms:
 - selection.
 - variable.
 - decomposition.
- Know the meaning of logical reasoning.
- Understand what a procedure is and why it is important in programs.
- Know that programs can be represented in different formats including written and diagrammatic.
- Understand the need for precision when creating sequences to ensure reliability.
- Understand how experiences of programming and control relate to control systems in the real world.
- Understand that there are often different ways to solve the same problem or task.
- Understand that programming software can create simple and complex simulations.

Skills

- Use repetition and selection in programs.
- Use variables in programs.
- Design and create programs using decomposition.
- Design programs to accomplish specific tasks or goals.
- Use logical reasoning to develop systematic strategies that can be used to debug algorithms and programs.
- Use procedures in programs.
- Design, test and refine programs to control robots or floor turtles taking account of purpose and needs.
- Use programming software to create simulations.