

Subject:

Computing



HECKMONDWIKE
GRAMMAR SCHOOL

KS4 - Year 10 Curriculum Overview

	Topics being taught	What you will be assessed on	How you can support at home
Autumn Term	Programming Procedures and functions Arrays Records and Files Strings Robust and Secure programming	Term 1 Using functions and procedures Tracing functions and procedures Arrays	Practice using functions and procedures Convert older programs to use functions and procedures
		Term 2 Algorithms Programming Data representation	Revision of Y9 work Practice loading and saving files

CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS

	Topics being taught	What you will be assessed on	How you can support at home
Spring Term	Sorting algorithms Determining the purpose of an algorithm Compression Mini programming project – Using files, records and compression	Term 3 Bubble and Merge sort Determining the purpose of algorithms through tracing	Practice sorting Practice searching once sorted
		Term 4 Programming project – Designing, building and testing a solution to a given problem	Designing your program Practice tracing algorithms

EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS

	Topics being taught	What you will be assessed on	How you can support at home
Summer Term	Boolean logic Circuits Application software System software Programming challenge	Term 5 Boolean logic	Look for real life applications of Boolean logic Practice writing Boolean expressions
		Term 6 Algorithms Programming Data Representation Boolean logic and software	Revision of all of year 9 work Revision of all year 10 work