Subject:

Computing

HECKMONDWIKE
GRAMMAR SCHOOL

KS3 - Year 7 Curriculum Overview

Autumn Term

Topics being taught	What you will be assessed on	How you can support at home
Topics **Key Skills:** Using the computer correctly Office 365 & E-Mail **E-Safety:** Safe use of the Internet & Digital Footprint Cyberbullying **Problem Solving:** Using logical thinking to solve problems	**Term 1** Computing knowledge baseline E-Safety understanding **Term 2** Digital Footprint & staying safe online Approaches to problem solving	Ask your child to show you their Team and OneNote notebook and ask them to explain how they will be used in computing Talk to your child about how to stay safe and their digital footprint Talk to your child about how they use technology Work with them to solve logic puzzles

CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS

Spring Term

Topics being taught	What you will be assessed on	How you can support at home

Programming concepts:
Algorithms
    Sequence
    Selection
    Iteration
Programming in Scratch
	Term 3
	Understanding algorithms
	
	Writing a simple number guessing game
	
	Term 4
	Problem solving
	
	Writing algorithms
	
	Writing and understanding programming
		Ask your child to demonstrate their programs
		
		Ask your child to explain how their programs work
		
		Check your child is practicing their programming
		
		Ask your child to explain the key features of programming

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

Summer Term

Topics being taught	What you will be assessed on	How you can support at home
Data Representation: Binary number system Data types Encoding text using binary Encoding images using binary **Control and Modelling using Flowol:** Modelling flowcharts of real-world systems	**Term 5** Images data representation **Term 6** All content for the year: Key skills E-safety Problem solving Programming concepts Data representation	Practice your binary numbers Look at ways your computer saves your files Revision of all topics Practicing your coding