Subject:

Computing

HECKMONDWIKE
GRAMMAR SCHOOL

NIL SINE LABORE

KS3 - Year 8 Curriculum Overview

Autumn Term

Topics being taught

Programming concepts:
Sequence
Selection
Iteration
Text Base Programming

Spreadsheets and Modelling
Using spreadsheets to make predictions

What you will be assessed on

Term 1

Sequence
Selection
Iteration

Term 2

Subroutines and Arrays

How you can support at home

Practice coding techniques

Homework challenges

Show off your programs

Practice using modelling in spreadsheets

CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS

Spring Term

Topics being taught

Physical Computing
Using simple circuits
Controlling simple electronics using code
Modelling real world devices

How does technology help people
The Internet of Things
E-Waste

What you will be assessed on

Term 3

Building a circuit and controlling electronics

Term 4

Programming and Physical Computing

How you can support at home

Talk about what simple computers you have at home

Discuss how simple computer devices work

Talk about how technology is used

How much e-waste do we produce?

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

Summer Term

Topics being taught

The digital divide
Artificial Intelligence
Wearable technology
Smart home and automation

Games programming and development

What you will be assessed on

Term 5

How does technology help people

Term 6

AI Y8 and Y7 topics

How you can support at home

Discuss the impact of technology

Talk about who has technology

Revision for final exams

Show off your game