Subject:

# Computing

HECKMONDWIKE
GRAMMAR SCHOOL

NIL SINE LABORE

## KS3 - Year 9 Curriculum Overview

### Autumn Term

| Topics being taught | What you will be assessed on | How you can support at home |
| --- | --- | --- |
| Problem solving<br><br>Algorithms<br>Decomposition<br>Abstraction<br><br>Flow charts<br>Pseudocode<br><br>Searching algorithms:<br>Linear search<br>Binary search | **Term 1**<br>Key algorithm terms<br><br>**Term 2**<br>Writing and following algorithms | Learn key terms<br><br>Practice designing algorithms<br><br>Practice tracing algorithms<br><br>Designing and tracing searching algorithms |

**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<br>Data types<br>Sequence<br>Selection<br>Iteration<br>Arrays | **Term 3**<br>Programming techniques<br><br>**Term 4**<br>Algorithms<br>Programming | Install VB if you can<br><br>Practice programming<br><br>Complete programming challenges<br><br>Development of Cows and Bulls challenge |

**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 |
| --- | --- | --- |
| Storage units and binary numbers<br>Binary arithmetic<br>ASCII and Unicode<br>Images<br>Sound | **Term 5**<br>Cows and bulls task<br>Data representation<br><br>**Term 6**<br>Final assessment<br>Algorithms<br>Programming<br>Data representation | Programming practice<br><br>Talk about the cows and bulls task<br><br>Talk about how you use computers for images<br><br>Talk about how you use computers for sound |