



## Year 2 Autumn term – Computing 2:1 Coding

In this unit we are exploring simple algorithms

Our Key Learning Objectives			
I understand what an algorithm is			
I can design algorithms and then code them			
I can compare different object types			
I can use the repeat command			
I can use the timer command			
I know what debugging is and debug programmes			

Tick the **green** box if you fully understand and can explain your knowledge to someone else. Tick the **orange** box if you understand a bit but would need some help to explain it to someone else. Tick the **red** box if you are still learning to understand.

### Key Words

<u>Action</u>	<u>Character</u>	<u>Command</u>	<u>Algorithm</u>
<u>Code Block</u>	<u>Debug/debugging</u>	<u>Bug</u>	<u>Code design</u>

Write down any questions you would like to explore further.

- 
- 
-



## Beacon 1

- I understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.
- Recognise common uses of technology beyond school
- Identify where to go for help when they have concerns about content or contact on the internet or other online technologies.



## Year 2 Autumn term – Computing 2:2 Online safety

In this unit we are exploring 2email and our digital footprint

Our Key Learning Objectives			
I know how to refine searches using the search tool			
I can use digital technology to share work on Purple Mash to communicate and connect with others locally			
I have some knowledge and understanding about sharing more globally on the internet			
I have some knowledge of email as a communication tool by using 2respond simulations			
I understand how we should talk to others in an online situation			
I can open and send simple online communications in the form of email			
I understand that information put online leaves a digital footprint and trail			
I can talk about the steps that can be taken to keep personal data and hardware secure			

Tick the **green** box if you fully understand and can explain your knowledge to someone else. Tick the **orange** box if you understand a bit but would need some help to explain it to someone else. Tick the **red** box if you are still learning to understand.

### Key Words

<u>Search</u>	<u>Diplays board</u>	<u>Internet</u>	<u>Sharing</u>
<u>Email</u>	<u>Attachement</u>	<u>Digital footprint</u>	<u>Communication</u>

Write down any questions you would like to explore further.

- 
- 
-



## **Beacon 1**

- I understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.
- Recognise common uses of technology beyond school
- Identify where to go for help when they have concerns about content or contact on the internet or other online technologies.



## Year 2 Autumn term – Computing 2:6 Creating pictures

In this unit we are exploring 2paint a picture

Our Key Learning Objectives			
I can use the function of the 2paint a picture tool			
I know about and can recreate the impressionist style of art			
I can recreate Pointillist art and talk about the work of Pointillist artist like Seurat			
I can talk about the work of Mondrian and recreate the style using the lines template			
I know about the work of W.Morris and can recreate his style using the patterns template			
I can talk about surrealism and eCollage			

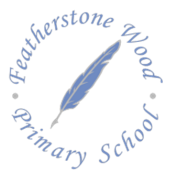
Tick the **green** box if you fully understand and can explain your knowledge to someone else. Tick the **orange** box if you understand a bit but would need some help to explain it to someone else. Tick the **red** box if you are still learning to understand.

### Key Words

<u>Impressionism</u>	<u>Palette</u>	<u>Share</u>	<u>Pointillism</u>
<u>Surrealism</u>	<u>Template</u>	<u>Pattern</u>	

Write down any questions you would like to explore further.

- 
- 
-



## **Beacon 1**

- I understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.
- Recognise common uses of technology beyond school
- Identify where to go for help when they have concerns about content or contact on the internet or other online technologies.

## Year 2 Autumn term – Computing 2:4 Questioning

In this unit we are exploring Binary trees and databases

Our Key Learning Objectives			
I can use yes/no questions to sort items.			
I know what a Binary Tree is.			
I can create a Binary Tree to sort pictures.			
I can use a Binary Tree to find answers to questions.			
I know what a database is.			
I can use a database to answer questions.			

Tick the **green** box if you fully understand and can explain your knowledge to someone else. Tick the **orange** box if you understand a bit but would need some help to explain it to someone else. Tick the **red** box if you are still learning to understand.

### Key Words

<p><u>Pictogram</u></p>	<p><u>Collate</u></p>	<p><u>Avatar</u></p>	<p><u>Question</u></p>
<p><u>Binary Tree</u></p>	<p><u>Databse</u></p>	<p><u>Data</u></p>	<p><u>Search</u></p>

Write down any questions you would like to explore further.

- 
- 
-



## **Beacon 1**

- I understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.
- Recognise common uses of technology beyond school
- Identify where to go for help when they have concerns about content or contact on the internet or other online technologies.





## Year 2 Spring term – Computing 2:5 Effective searching

In this unit we are exploring internet searching

Our Key Learning Objectives			
I understand the terminology associated with searching			
I have a better understanding of searching on the internet			
I can create a leaflet to help someone search for information on the internet			

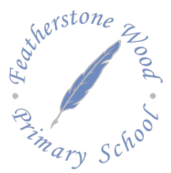
Tick the **green** box if you fully understand and can explain your knowledge to someone else. Tick the **orange** box if you understand a bit but would need some help to explain it to someone else. Tick the **red** box if you are still learning to understand.

### Key Words

<u>Internet</u>	<u>Search</u>	<u>Search engine</u>	<u>Leaflet</u>

Write down any questions you would like to explore further.

- 
- 
-



## **Beacon 1**

- I understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.
- Recognise common uses of technology beyond school
- Identify where to go for help when they have concerns about content or contact on the internet or other online technologies.



## Year 2 Spring term — Computing 2:3 Spreadsheets

In this unit we are exploring tables and block graphs

Our Key Learning Objectives			
I can use 2calculate image, lock, move cell, speak and count tools to make a counting machine			
I know how to copy and past in 2Calculate			
I can use the totalling tools			
I can use a spreadsheet for money calculations			
I can use the 2Calcualte equals tools to check calculations			
I can use 2Calculate to collect data and produce a graph			

Tick the **green** box if you fully understand and can explain your knowledge to someone else. Tick the **orange** box if you understand a bit but would need some help to explain it to someone else. Tick the **red** box if you are still learning to understand.

### Key Words

<u>Backspace key</u>	<u>Count tool</u>	<u>Move cell tool</u>	<u>Copy and paste</u>
<u>Delete key</u>	<u>Equals tool</u>	<u>Speak tool</u>	<u>Image toolbox</u>

Write down any questions you would like to explore further.

- 
- 
-



## Beacon 1

- I understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.
- Recognise common uses of technology beyond school
- Identify where to go for help when they have concerns about content or contact on the internet or other online technologies.



## Year 2 Summer term – Computing 2:7 Making music

In this unit we are exploring exiting sounds and recording own sounds

Our Key Learning Objectives			
I can make music digitally using 2sequence			
I can explore, edit and combine sounds using 2sequence			
I can edit and refine composed music			
I can think about how music can be used to express feelings and create tunes which depict feelings			
I can upload a sound from a bank of sounds into the sound section			
I can record and upload environmental sounds into Purple Mash			
I can use these sounds to create tunes in 2sequence			

Tick the **green** box if you fully understand and can explain your knowledge to someone else. Tick the **orange** box if you understand a bit but would need some help to explain it to someone else. Tick the **red** box if you are still learning to understand.

### Key Words

<u>Bpm</u>	<u>Instrument</u>	<u>Soundtrack</u>	<u>Composition</u>
<u>Music</u>	<u>Tempo</u>	<u>Digitally</u>	<u>Sound effects</u>

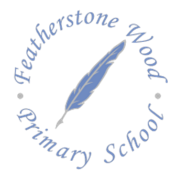
Write down any questions you would like to explore further.

- 
- 
-



## **Beacon 1**

- I understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.
- Recognise common uses of technology beyond school
- Identify where to go for help when they have concerns about content or contact on the internet or other online technologies.



## Year 2 Summer term – Computing 2:8 Presenting ideas

In this unit we are exploring quiz's, fact files and presentations

Our Key Learning Objectives			
I can discuss how a story can be presented in different ways			
I can make a quiz about a story or class topic			
I can make a fact file on a non-fiction topic			
To can make a presentation to the class			

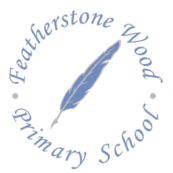
Tick the **green** box if you fully understand and can explain your knowledge to someone else. Tick the **orange** box if you understand a bit but would need some help to explain it to someone else. Tick the **red** box if you are still learning to understand.

### Key Words

<u>Concept map</u>	<u>Quiz</u>	<u>Narrative</u>	<u>Note</u>
<u>Non-fiction</u>	<u>Audience</u>	<u>Animated</u>	<u>Presentation</u>

Write down any questions you would like to explore further.

- 
- 
-



## Beacon 1

- I understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.
- Recognise common uses of technology beyond school
- Identify where to go for help when they have concerns about content or contact on the internet or other online technologies.