

Prior Learning					
Prior learning will be the children's knowledge of databases and spreadsheets specifically what is meant by 'field', 'record' and 'data' as well as how to input values, sort, filter and interpret data in a spreadsheet. They will also use their knowledge of the water cycle from last term.					
Key vocabulary for this unit					
Accurate Backdrop Climate zone Collaboration Condensation Cylinder Degrees Evaporation Extreme weather Forecast Heat sensor	Pinwheel Satellite Script Sensitive Sensor data Solar panel Temperature Thermometer Tornado Weather Weather forecast				
Learning Sequence					
What is weather? • To log data taken from online source	ces in a spreadsheet.				
Weather stations • To design a weather station.					
Extreme weather					
Satellites and forecasts To understand how weather foreca	• To understand how weather forecasts are made. recasts				
Presenting forecasts To use tablets or digital cameras to	To use tablets or digital cameras to present a weather forecast.				
Assessment milestones					
Key ICT Skills:	Key ICT Knowledge:				
 To create a video which includes weather forecast information. 	• To understand that weather stations use sensors to gather and record data that predicts the weather.				

•	To use keywords to effectively search the web to find temperatures of different cities and record this accurately.	 To understand that data is used to forecast weather.
•	To recording data in a spreadsheet independently. To sort data in a spreadsheet to compare using the 'sort by' option.	• To understand that weather forecasters use specific language, expression and pre-prepared scripts to help create weather forecast films.

Programming: Computational Thinking

Prior Learning				
Prior learning will be the children's knowledge of coding and the program Scratch particularly beginning to create and predict algorithms, understand what decomposition is and being able to use loops.				
Key vocabulary for t	his unit			
Abstraction Algorithm Code Computational thinking Decomposition		Logical reasoning Output Pattern recognition Script Sequence		
Learning Sequence		Variable		
What is computational thinking?	To understand that computational thinking is made up of four key strands.			
Decomposition	To understand what decomposition is and how to apply it to solve problems.			
Abstraction and pattern recognition	To understand what pattern recognition and abstraction mean.			
Algorithm design	To understand how to create an algorithm and what it can be used for.			
Apply computational thinking	To combine computational thinking skills to solve a problem.			
Assessment milestones				
Key ICT Skills:		Key ICT Knowledge:		
To use decomposition to understand what the different		To know that combining computational thinking skills can		

 code blocks do. To create algorithms to draw a square and at least one other shape. Using abstraction and pattern recognition to modify code. help you to solve To understand the 'abstraction' and 'abstraction' abstraction' abstraction' and 'abstraction' abstraction' a	e a problem. he terms 'pattern recognition' and I how they help to solve a problem.
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