

Digital World
Progression of Knowledge Cycle A

Year R	Year 1	Year 2/3	Year 4/5	Year 6
			<p>Monitoring Devices</p> <p><u>Children will know:</u></p> <ul style="list-style-type: none"> - A 'device' means equipment created for a certain purpose or job and that monitoring devices observe and record. - A sensor is a tool or device that is designed to monitor, detect and respond to changes for a purpose. -Conditional statements (and, or, if booleans) in programming are a set of rules which are followed if certain conditions are met. - Key developments in thermometer history. -Events or facts that took place over the last 100 years in the history of plastic, and how this 	<p>Navigating the World</p> <p><u>Children will know:</u></p> <ul style="list-style-type: none"> - Accelerometers can detect movement. -Sensors can be useful in products as they mean the product can function without human input. -Designers write design briefs and develop design criteria to enable them to fulfil a client's request. - 'multifunctional' means an object or product has more than one function. - Magnetometers are devices that measure the Earth's magnetic field to determine which direction you are facing.

			<p>is changing our outlook on the future.</p> <ul style="list-style-type: none"> -The 6Rs of sustainability. -What a virtual model is and the pros and cons of traditional vs CAD modelling. 	
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<p align="center">Digital World Progression of Knowledge Cycle B</p>				
Year R	Year 1	Year 2/3	Year 4/5	Year 6
			<p>Mindful Moments Timer</p> <p><u>Children will know:</u></p> <ul style="list-style-type: none"> - What variables are in programming. -Some of the features of a Micro:bit. -An algorithm is a set of instructions to be followed by the computer. -It is important to check my code for errors (bugs). -A simulator can be used as a way of checking 	<p>As above</p>

			<p>your code works before installing it onto an electronic device.</p> <ul style="list-style-type: none">- Understand the terms 'ergonomic' and 'aesthetic'.-A prototype is a 3D model made out of cheap materials, that allows us to test design ideas and make better decisions about size, shape and materials.-An exhibition is a way for companies to showcase products, meet potential new customers and gather feedback from users.	
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