



Computing Curriculum – Progression of Skills 2019-20

Year 1	<p><u>Coding 1</u></p> <ul style="list-style-type: none"> ● Create simple algorithms and debug programs using KUBO to solve a range of problems. 	<p><u>Coding 2</u></p> <ul style="list-style-type: none"> ● Create simple code using Scratch Jr to program their own interactive stories. 	<p><u>Communicating</u></p> <ul style="list-style-type: none"> ● Use a range of applications and devices in order to improve their curriculum work. 	<p><u>Connecting</u></p> <ul style="list-style-type: none"> ● Locate and explain common uses of information at home and participate in discussions about their use. 	<p><u>E-Safety</u></p> <ul style="list-style-type: none"> ● Use technology safely and respectfully, understanding that personal information, such as passwords, are private. 	
Year 2	<p><u>Coding 1</u></p> <ul style="list-style-type: none"> ● Create more complicated algorithms and debug programs using KUBO to follow given instructions. 	<p><u>Coding 2</u></p> <ul style="list-style-type: none"> ● Plan, write and test code using Scratch Jr to program their own interactive stories and games. 	<p><u>Communicating</u></p> <ul style="list-style-type: none"> ● Use a range of applications and devices in order to communicate ideas, work and messages for display in the classroom. 	<p><u>Connecting</u></p> <ul style="list-style-type: none"> ● Understand common uses of information technology beyond school and participate in class social media accounts. 	<p><u>E-Safety 1</u></p> <ul style="list-style-type: none"> ● Use technology safely and respectfully keeping personal information private. Take ownership of school devices by helping store and maintain them. 	<p><u>E-Safety 2</u></p> <ul style="list-style-type: none"> ● Have an awareness of online risks and know where to go for help when they have concerns.
Year 3	<p><u>Coding 1</u></p> <ul style="list-style-type: none"> ● Create and debug complex algorithms using LEGO WeDo 2.0 to create outputs for a purpose. 	<p><u>Coding 2</u></p> <ul style="list-style-type: none"> ● Write code with 'IF statements', to trigger events depending on the input given or what happens to an object on screen 	<p><u>Communicating</u></p> <ul style="list-style-type: none"> ● Use a range of applications and devices effectively in order to communicate ideas including emails to parents with attachments and links. 	<p><u>Connecting</u></p> <ul style="list-style-type: none"> ● Explore the benefits of the internet and school blogs for research purposes, understanding how to browse the internet effectively for a purpose. 	<p><u>E-Safety 1</u></p> <ul style="list-style-type: none"> ● Use technology safely and respectfully keeping personal information private. 	<p><u>E-Safety 2</u></p> <ul style="list-style-type: none"> ● Have an awareness of online risks and recognize inappropriate online behavior and is aware of ways to report concerns.



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Year 4	<p>Coding 1</p> <ul style="list-style-type: none"> Write code using variables to create simple games, which use a score or timer. 	<p>Coding 2</p> <ul style="list-style-type: none"> Write code with 'IF statements', to trigger events depending on the input given or what happens to an object on screen. Including use repetition and loops to do things repeatedly/forever. 	<p>Communicating</p> <ul style="list-style-type: none"> Use a range of applications and devices effectively in order to communicate ideas, work and messages for the school newsletter. 	<p>Connecting</p> <ul style="list-style-type: none"> Explore the benefits of the internet and digital media and incorporate these into daily school life to improve the visibility of daily life at WPS. 	<p>E-Safety 1</p> <ul style="list-style-type: none"> Use technology safely and respectfully keeping personal information private. Monitor and secure shared devices such as school ipads and laptops to help protect other children in school. 	<p>E-Safety 2</p> <ul style="list-style-type: none"> Spot dangers facing young people online and create guides for parents on how to keep children safe online when surfing the internet.
Year 5	<p>Coding 1</p> <ul style="list-style-type: none"> Write code that uses a range of sensing tools through LEGO WeDo 2.0 to solve scientific problems. 	<p>Coding 2</p> <ul style="list-style-type: none"> Solve coding problems by writing, testing and debugging a range of code to ensure a game runs as planned using scratch. 	<p>Communicating</p> <ul style="list-style-type: none"> Use advanced features of a suitable applications such as Weather sensors to relay information to school leaders and other stakeholders. 	<p>Connecting</p> <ul style="list-style-type: none"> Collaborate and interact with others online through School Blogs and Twitter. Relay information to parents in real-time. 	<p>E-Safety 1</p> <ul style="list-style-type: none"> Use technology safely and respectfully keeping personal information private and understand that comments made online can be hurtful or offensive. 	<p>E-Safety 2</p> <ul style="list-style-type: none"> Give examples of online risks and demonstrate knowledge of how to minimize risk and report concerns.
Year 6	<p>Coding 1</p> <ul style="list-style-type: none"> Write code that uses variables in more complex ways and manipulate inputs to create useful outputs to find solutions to real-life problems using SAM labs. 	<p>Coding 2</p> <ul style="list-style-type: none"> Solve coding and problems by studying and creating programs using python, scratch and html. 	<p>Communicating</p> <ul style="list-style-type: none"> Use advanced features of a suitable applications or devices to communicate ideas, work and presentations effectively for a purpose. 	<p>Connecting</p> <ul style="list-style-type: none"> Explore the benefits of the internet, My Learning and School Blogs thinking about the opportunities and services they provide, including communication and collaboration at WPS. 	<p>E-Safety 1</p> <ul style="list-style-type: none"> Use technology safely whilst understanding and the effects of negative comments on social media linked to the Social and Moral Education curriculum. 	<p>E-Safety 2</p> <ul style="list-style-type: none"> Give examples of online risks such as phishing and cyber-crime and create guides for parents and stakeholders.