

# Lake Farm Park Academy

## Computing Long Term Overview 2022-2023



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Year 1</b>	We are treasure hunters Programmable toys <b>Rising Stars Unit 1.1</b>	We are TV chefs Videoing a performance <b>Rising Stars Unit 1.2</b>	We are painters Illustrating e-books <b>Rising Stars Unit 1.3</b>	We are collectors Collecting Images from Web <b>Rising Stars Unit 1.4</b>	We are storytellers Producing a talking book <b>Rising Stars Unit 1.5</b>	We are celebrating Creating Digital Card <b>Rising Stars Unit 1.6</b>
<b>Skills coverage</b>	understand what algorithms are  create simple programs	use technology purposefully to create digital content  use technology purposefully to store digital content  use technology purposefully to retrieve digital content	use technology purposefully to create digital content  use technology purposefully to store digital content  use technology purposefully to retrieve digital content	use technology safely keeping personal information private  recognise common rules and uses of information technology beyond school  know who to talk to if help is needed online  use technology purposefully to create digital content  use technology purposefully to store digital content	use technology safely keeping personal information private  recognise common rules and uses of information technology beyond school  know who to talk to if help is needed online	use technology purposefully to create digital content  use technology purposefully to store digital content  use technology purposefully to retrieve digital content
<b>Year 2</b>	We are astronauts Programming <b>Rising Stars Unit 2.1</b>	We are game testers Software Testing <b>Rising Stars Unit 2.2</b>	We are taking photos Photography <b>Rising Stars Unit 2.3</b>	We are researching a topic Online Research <b>Rising Stars Unit 2.4</b>	We are collecting clues Collecting Information <b>Rising Stars Unit 2.5</b>	We are zoologists Data Handling <b>Rising Stars Unit 2.6</b>
<b>Skills coverage</b>	understand that algorithms are implemented as programs on digital devices  understand that programs execute by following	use technology respectfully and understand the importance of using devices in moderation	understand that algorithms are implemented as	use technology respectfully and understand the importance of using devices in moderation	use technology purposefully to organise digital content	use technology respectfully and understand the

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	<p>precise and unambiguous instructions</p> <p>debug simple programs</p> <p>use logical reasoning to predict the behaviour of simple programs</p>	<p>understand where to go for help and support when they have concerns about content or contact on the internet or other online technologies</p>	<p>programs on digital devices</p> <p>understand that programs execute by following precise and unambiguous instructions</p> <p>debug simple programs</p> <p>use logical reasoning to predict the behaviour of simple programs</p>	<p>understand where to go for help and support when they have concerns about content or contact on the internet or other online technologies</p> <p>use technology purposefully to organise digital content</p> <p>use technology purposefully to manipulate digital content</p>	<p>use technology purposefully to manipulate digital content</p> <p>use technology respectfully and understand the importance of using devices in moderation</p> <p>understand where to go for help and support when they have concerns about content or contact on the internet or other online technologies</p>	<p>importance of using devices in moderation</p> <p>understand where to go for help and support when they have concerns about content or contact on the internet or other online technologies</p> <p>use technology purposefully to organise digital content</p> <p>use technology purposefully to manipulate digital content</p>
<b>Year 3</b>	<p>We are programmers Animating <b>Rising Stars Unit 3.1</b></p>	<p>We are bug fixers Debugging of Programming <b>Rising Stars 3.2</b></p>	<p>We are presenters Videography <b>Rising Stars Unit 3.3</b></p>	<p>We are vloggers Vlogging <b>Rising Stars Unit 3.4</b></p>	<p>We are communicators Online communication <b>Rising Stars Unit 3.5</b></p>	<p>We are opinion pollsters Data handling <b>Rising Stars Unit 3.6</b></p>
<b>Skills coverage</b>	<p>write programs that accomplish specific goals</p> <p>use sequence in programs</p> <p>use technology safely, respectfully and responsibly</p>	<p>write programs that accomplish specific goals</p> <p>use sequence in programs</p> <p>use technology safely, respectfully and responsibly</p>	<p>use technology safely, respectfully and responsibly</p> <p>give reasons why certain information should be kept private or can be made public</p> <p>to understand the concept of a digital footprint</p>	<p>use technology safely, respectfully and responsibly</p> <p>use a variety of software to accomplish given goals such as presenting information</p> <p>use technology safely, respectfully and responsibly</p>	<p>use search technologies effectively to collect information</p> <p>use a variety of software to accomplish given goals such as presenting information</p> <p>use technology safely, respectfully and responsibly to understand the concept of a digital footprint</p>	<p>use search technologies effectively to collect information</p> <p>use a variety of software to accomplish given goals such as presenting information</p> <p>use technology safely, respectfully and responsibly</p>

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			<p>identify a range of ways to report concerns about contact</p> <p>understanding the impact of screen time and importance of balance</p>	<p>to understand the concept of a digital footprint</p> <p>identify a range of ways to report concerns about contact</p> <p>understanding the impact of screen time and importance of balance</p>		<p>to understand the concept of a digital footprint</p>
<b>Year 4</b>	<b>Software Development Rising Stars Unit 4.1</b>	<b>We Are Toy Designers Rising Start Unit 4.2</b>	<b>Digital Music Production Rising Stars Unit 4.3</b>	<b>HTML Editing Rising Stars Unit 4.4</b>	<b>Production of Wiki Page Rising Stars Unit 4.5</b>	<b>Data Analysis Rising Stars Unit 4.6</b>
<b>Skills coverage</b>	<p>work with various forms of input</p> <p>work with various forms of output</p> <p>design programs that accomplish specific goals</p> <p>debug programs that accomplish specific goals</p> <p>use repetition in programs</p>	<p>work with various forms of input</p> <p>work with various forms of output</p> <p>design programs that accomplish specific goals</p> <p>debug programs that accomplish specific goals</p> <p>use repetition in programs</p>	<p>use technology respectfully and the importance of balance, identifying consequences of device dependency</p> <p>understand the opportunities computer networks offer for communication</p> <p>understanding the scope and importance of one's digital footprint via social media and online activities</p> <p>identify a range of ways to report concerns about content and contact</p> <p>recognise acceptable/unacceptable behaviour</p>	<p>use search technologies effectively</p> <p>use a variety of software to accomplish given goals</p> <p>design and create content</p> <p>select and use internet services</p>	<p>use technology respectfully and the importance of balance, identifying consequences of device dependency</p> <p>understand the opportunities computer networks offer for communication</p> <p>understanding the scope and importance of one's digital footprint via social media and online activities</p> <p>identify a range of ways to report concerns about content and contact</p> <p>recognise acceptable/unacceptable behaviour</p>	<p>work with various forms of input</p> <p>work with various forms of output</p> <p>design programs that accomplish specific goals</p> <p>debug programs that accomplish specific goals</p> <p>use repetition in programs</p>

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Year 5	Game Development <b>Rising Stars Unit 5.1</b>	Cracking Codes/Cryptography <b>Rising Stars Unit 5.2</b>	Digital Artwork <b>Rising Stars Unit 5.3</b>	Web Page Creation/E-Safety <b>Rising Stars Unit 5.4</b>	Blogging/Online Publishing <b>Rising Stars Unit 5.5</b>	Creating a Virtual Space <b>Rising Start Unit 5.6</b>
<b>Skills coverage</b>	<p>understand the opportunities computer networks offer for communication and application</p> <p>identify a range of ways to report concerns about content and contact</p> <p>recognise acceptable/unacceptable behaviour</p> <p>to explore the concept of ownership and copyright in user generated content and social media</p> <p>to be aware that certain features in popular games can be compulsive</p>	<p>design and create programs</p> <p>control or simulate physical systems</p> <p>use logical reasoning to detect and correct errors in algorithms and programs</p> <p>understand how computer networks can provide multiple services, such as the world wide web</p> <p>appreciate how results are selected and ranked</p>	<p>design and create programs</p> <p>control or simulate physical systems</p> <p>select a variety of software to accomplish given goals</p>	<p>select a variety of software to accomplish given goals</p> <p>to understand how to protect your devices and keep them well maintained</p> <p>select, use and combine internet services</p> <p>collect data</p> <p>present and interpret data</p> <p>analyse information</p> <p>evaluate information</p>	<p>understand the opportunities computer networks offer for communication and application</p> <p>identify a range of ways to report concerns about content and contact</p> <p>recognise acceptable/unacceptable behaviour</p> <p>to explore the concept of ownership and copyright in user generated content and social media</p> <p>select a variety of software to accomplish given goals</p> <p>to understand how to protect your devices and keep them well maintained</p> <p>select, use and combine internet services</p> <p>collect data</p> <p>present and interpret data</p>	<p>select a variety of software to accomplish given goals</p> <p>to understand how to protect your devices and keep them well maintained</p> <p>select, use and combine internet services</p> <p>collect data</p> <p>present and interpret data</p> <p>analyse information</p> <p>evaluate information</p>

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					analyse information	
<b>Year 6</b>	<b>App Development Rising Stars Unit 6.1</b>	<b>Project Management Rising Stars Unit 6.2</b>	<b>Market Researchers Rising Stars Unit 6.3</b>	<b>Interface Designers Rising Stars Unit 6.4</b>	<b>Mobile App Developers Rising Stars Unit 6.5</b>	<b>Marketers: Create Video/Web Apps Rising Stars Unit 6.6</b>
<b>Skills coverage</b>	<p>combine a variety of software to accomplish given goals</p> <p>select, use and combine software on a range of digital devices</p> <p>collect data</p> <p>present and interpret data</p> <p>analyse data</p> <p>evaluate data</p> <p>design and create systems</p>	<p>solve problems by decomposing them into smaller parts</p> <p>use selection in programs</p> <p>work with variables</p> <p>use logical reasoning to explain how some simple algorithms work</p> <p>use logical reasoning to detect and correct errors in algorithms</p> <p>understand computer networks including the internet</p> <p>appreciate how results are ranked</p>	<p>understand the opportunities computer networks offer for collaboration</p> <p>be discerning in evaluating digital content</p> <p>to understand the different systems used to age rate content and to explain why this is beneficial</p> <p>to understand the difference between influence, persuasion and manipulation and how these can be encountered online.</p> <p>collect data</p> <p>present and interpret data</p> <p>analyse data</p> <p>evaluate data</p> <p>design and create systems</p>	<p>solve problems by decomposing them into smaller parts</p> <p>use selection in programs</p> <p>work with variables</p> <p>use logical reasoning to explain how some simple algorithms work</p> <p>use logical reasoning to detect and correct errors in algorithms</p> <p>understand computer networks including the internet</p> <p>appreciate how results are ranked</p>	<p>solve problems by decomposing them into smaller parts</p> <p>use selection in programs</p> <p>work with variables</p> <p>use logical reasoning to explain how some simple algorithms work</p> <p>use logical reasoning to detect and correct errors in algorithms</p>	<p>combine a variety of software to accomplish given goals</p> <p>select, use and combine software on a range of digital devices</p> <p>solve problems by decomposing them into smaller parts</p> <p>use selection in programs</p> <p>work with variables</p>

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