

River Bank Primary Knowledge Organiser	Year 2	Autumn 2 - Computing	We are game testers
Basic programming terminology		Websites and links	
<p><u>'We are game testers'</u></p> <p>In this unit, you will try to uncover how some simple Scratch games work. You will also look at free online games and share your favourite games with the class. This unit will enable you to:</p> <ul style="list-style-type: none"> <li>• describe carefully what happens in computer games</li> <li>• use logical reasoning to make predictions of what a program will do</li> <li>• test these predictions</li> <li>• think critically about computer games and their use</li> <li>• be aware of how to use games safely and in balance with other activities.</li> </ul> <p>By the end of term, you will:</p> <ul style="list-style-type: none"> <li>• understand that computer games are made up of precise instructions for the computer to follow</li> <li>• understand that computer programmers will have used many algorithms in making a computer game</li> <li>• use logical reasoning to make predictions about what happens next</li> <li>• suggest ways in which simple computer games could be improved</li> <li>• be aware of and observe age restrictions on commercial games</li> <li>• know that you should tell your parents or carers if you are concerned about something in a computer game</li> </ul> <p>(information from 'Rising Stars Computing')</p> <p>Remember to be SMART online:  S – Stay Safe  M – Don't Meet Up:  A – Accepting Files  R – Reliable?  T – Tell Someone:</p> 		<p>Fish game (Scratch 2): <a href="http://scratch.mit.edu/projects/15906446">http://scratch.mit.edu/projects/15906446</a></p> <p>Tennis game (Scratch 2): <a href="http://scratch.mit.edu/projects/15906870">http://scratch.mit.edu/projects/15906870</a></p> <p>Background on Pong: <a href="http://en.wikipedia.org/wiki/Pong">http://en.wikipedia.org/wiki/Pong</a></p> <p>Duck shoot game (Scratch 2): <a href="http://scratch.mit.edu/projects/15907506">http://scratch.mit.edu/projects/15907506</a></p> <p><b>As your own programming skills and knowledge of computing grows, feel free to replace or modify the example programs provided.</b></p> <p>PEGI: <a href="http://www.pegi.info/en/index">www.pegi.info/en/index</a></p> <p>Good examples of more complex games online:  Angry Birds (in Chrome): <a href="http://chrome.angrybirds.com">http://chrome.angrybirds.com</a>  Freeciv: <a href="http://sourceforge.net/projects/freeciv">http://sourceforge.net/projects/freeciv</a></p> <p><a href="http://www.skillset.org/games">www.skillset.org/games</a> has useful material on computer games</p> <p><b>Terminology</b></p> <p>Algorithm – is a set of instructions - yes, even asking a 'Blue Bot' to turn left and go straight on is an algorithm.</p> <p>Logic – if you or someone is using logic you are following rules. You may be using logic and not even know it!</p> <p>Coding—breaks down programs into smaller parts.</p> <p>Coding—uses reasoning to find and fix errors in algorithms (instructions) and programs.</p> <p>Coding—choose and use a variety of software, systems and content that accomplish given goals.</p> <p>Sprites - a computer graphic (a cat) which may be moved on-screen.</p>  	



Quiz	<u>A</u>	<u>B</u>	<u>C</u>
An algorithm is?	A set of instructions	A set or games	A set of reasons
A sprite is?	A piece of software	A computer graphic	A computer
Why do you check a prediction?	Check it works	Check it is broken	To see if Google can help
What does the M in 'SMART' stand for?	Meat	Don't Meet Up	Do Meet Up
What animal is the sprite in Scratch?	Dog	Cat	Fish
What can you do to stay safe online?	Let an adult know you are on a computer	Share your personal information online	Talk to strangers