



Computing

Year 6 - I can assessment statements

<u>Knowledge</u>	<u>Skills</u>
<ul style="list-style-type: none"> • can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation. • can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems • can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems <p>I can design a new game to present information and advertise a product launch.</p> <p>I can use appropriate software and other tools in order to write a film script.</p> <p>I can search for relevant information using appropriate websites.</p> <p>I can use a digital video camera/device to record.</p> <p>I can import video files to video editing software.</p> <p>I can convert a movie editing project into a finished movie file.</p>	<p>Computer Science</p> <ul style="list-style-type: none"> • Use computational abstractions • Model state of real world problems • Use a programming language to solve computational problems • Understand simple Boolean logic • Understand how numbers can be represented in binary • Understand the hardware components that make up computer systems • Understand how text can be represented digitally in the form of binary digits • Understand how pictures can be represented digitally in the form of binary digits <p>I can open Kodu and load a new world.</p> <p>I can add objects to a new world and program it to react to an event.</p>
<ul style="list-style-type: none"> • Undertake creative projects with challenging goals • Use multiple applications • [Work with] applications across a range of devices • Collect data <p>I can enter data and formulas into a spreadsheet.</p> <p>I can order and present data using calculations.</p> <p>I can use formulas to calculate totals and averages.</p> <p>I can use a spreadsheet to solve problems</p> <p>I can plan and calculate a spending budget using the spreadsheet software.</p> <p>I can design a spreadsheet for a specific purpose.</p>	

<ul style="list-style-type: none"> • Understand a range of ways to use technology respectfully and safely • Recognise inappropriate content, contact and conduct • Know how to report concerns • Reuse digital artefacts for a given audience • Attend to usability of digital artefacts <p>I can find similarities and differences between bullying and cyberbullying and suggest ways of dealing with this.</p> <p>I can identify secure websites and know why I should ask an adult if I am unsure.</p> <p>I can explain why someone might have an online friendship and know what to do if anyone makes me feel uncomfortable.</p> <p>I can explain some of the dangers of revealing personal information online to a friend.</p> <p>I can apply my online safety knowledge when I use the internet and help teach this to others.</p>	<p>I can use tools and add features to create an original landscape in kodu.</p> <p>I can use ideas in code to make my own programs.</p> <p>I can program a character to move.</p> <p>I can program a character to follow a path.</p>
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