

Year / Topic	Term
6.3 Spreadsheet Modelling	Spring 1
Resources Microsoft Excel	<p style="text-align: center;"><u>Key Classroom ICT Activity</u></p> <p>In this unit students will look and understand how simple models are built by investigating rules and by seeing how rules can govern the behaviour of simple models. During these lessons students will develop the skills needed to setup a model and then use it to investigate various scenarios using the scenario Harry Plotter starting school at Hogwalks.</p> <p>By the end of the topic students will be able to:</p> <ul style="list-style-type: none"> • Know what the terms cell, value, label and formula mean. • Write simple formula. • Understand how to write a formula to calculate the total, average, highest and lowest from a range of data. • Pick up a value from another sheet using a cell reference. • Use a spreadsheet to model different scenarios. <p>Assessment - Progression Pathways</p> <p>All children should – <i>CS, Understand that algorithms are implemented on digital devices as programs. Detects and corrects simple semantic errors. Knows that computers collect data from various input devices.</i></p> <p style="padding-left: 40px;"><i>IT, Uses technology with increasing independence to purposefully organise digital content. Collects, organises and presents data and information in digital content. Creates digital content to achieve a given goal. Makes improvements to solutions based on feedback received, and can comment on the success of the solution.</i></p> <p>Most children should – <i>CS, Shows an awareness of tasks completed by humans or computers. Designs solutions by decomposing a problem and creates a sub-solution for each of these parts. Recognises that different solutions exist for the same problem.</i></p> <p style="padding-left: 40px;"><i>IT, Recognises the audience when designing and creating digital content. Uses criteria to evaluate the quality of solutions, can identify improvements making some refinements to the solution and future solutions.</i></p> <p>Some children should - <i>IT, Queries data on one table using a typical query language.</i></p>
Target Skills Research Spreadsheets Modelling Charts	
Curriculum Links Maths – formula, creating charts to display data.	
E-Safety Coverage Students will need to consider copyright when sourcing images or media for their games. The students will revisit e-safety rules to create an e-safety animation as part of their assessment work.	

Assessment Criteria**6.3 Spreadsheet Modelling**

Emerging	<ul style="list-style-type: none">✓ I can show understanding of how to write a formula.✓ I can demonstrate care and precision to avoid errors.
Developing	<ul style="list-style-type: none">✓ I know that computers collect data from various input device.✓ I can use some basic formulas.✓ I can create graphs and charts.
Secure	<ul style="list-style-type: none">✓ I can make improvements to solutions based on feedback received.✓ I can create appropriate and well labelled charts and graphs.✓ I can successfully use max, min, average and the sum formula.✓ I can show an awareness of tasks completed by humans or computers.
Mastered	<ul style="list-style-type: none">✓ I can recognise that different solutions exist for the same problem.✓ I can choose appropriate formulas and use them independently.✓ I can identify improvements and make refinements to the solution and future solutions.✓