

Emerald Year 5 – Computing Medium Term Planning **(Upper KS2 Curriculum – Year A)**

Differentiation by input see the weekly planning sheet/

-Key vocab for each learning objective is in red font /

-Resources -see the weekly planning /

-Minimum Assessment for Learning strategies for all topics = Peer Talk; targeted questioning; mini white boards; and self and peer marking

- Long term memory development strategies= Recapping previous learning at the start of each new topic / Long term memory strategy linked to the objectives on this sheet for each week

- **Computing** Cultural Capital = can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation

[illegible]

Emerald Year 5 – Computing Medium Term Planning

(Upper KS2 Curriculum – Year A)

	<u>Week 1</u>	<u>Week 2</u>	<u>Week 3</u>	<u>Week 4</u>	<u>Week 5</u>	<u>Week 6</u>	<u>Week 7</u>
Autumn second half Creating Media – Video Editing	<u>What is video?</u> <u>Learning Objective</u> - To explain what makes a video effective <u>Success Criteria</u> - I can explain that video is a visual media format - I can identify features of videos - I can compare features in different videos	<u>Filming techniques</u> <u>Learning Objective</u> - To identify digital devices that can record video <u>Success Criteria</u> - I can identify and find features on a digital video recording device - I can experiment with different camera angles - I can recognise camera angles in a video	<u>Using a storyboard</u> <u>Learning Objective</u> - To capture video using a range of techniques <u>Success Criteria</u> - I can suggest filming techniques for a given purpose - I can capture video using a range of filming techniques - I can review how effective my video is	<u>Planning a video</u> <u>Learning Objective</u> - To create a storyboard <u>Success Criteria</u> - I can outline the scenes of my video - I can decide which filming techniques I will use - I can create and save video content	<u>Importing and editing video</u> <u>Learning Objective</u> - To identify that video can be improved through reshooting and editing <u>Success Criteria</u> - I can explain how to improve a video by reshooting and editing - I can select the correct tools to make edits to my video - I can store, retrieve, and export my recording to a computer	<u>Video evaluation</u> <u>Learning Objective</u> - To consider the impact of the choices made when making and sharing a video <u>Success Criteria</u> - I can evaluate my video and share my opinions - I can make edits to my video and improve the final outcome - I can recognise that my choices when making a video will impact on the quality of the final outcome	Assessment, Consolidation and Review
Key Vocabulary	Video, audio, camera, talking head, panning, close up	Video camera, microphone, lens, close up, mid-range, long shot, moving subject, side by side, high angle, low angle, normal angle	Static camera, zoom, pan, tilt, storyboard	Storyboard, filming, review	Import, split, trim, clip, edit, reshoot	Delete, trim, reorder, export, evaluate, share	
KS2 Computing NC Links	2.5, 2.6, 2.7	2.5, 2.6, 2.7	2.5, 2.6, 2.7	2.5, 2.6, 2.7	2.5, 2.6, 2.7	2.5, 2.6, 2.7	
Computing Strand	CM, DD	CM, CS	CM, SS	CM, DD, ET	CM, ET	CM, DD, ET	
Education for a Connected World							

Emerald Year 5 – Computing Medium Term Planning (Upper KS2 Curriculum – Year A)

[illegible]

Emerald Year 5 – Computing Medium Term Planning

(Upper KS2 Curriculum – Year A)

	<u>Week 1</u>	<u>Week 2</u>	<u>Week 3</u>	<u>Week 4</u>	<u>Week 5</u>	<u>Week 6</u>	<u>Week 7</u>
Spring second half Data and Information – Flat-file Databases	Creating a paper-based database <u>Learning Objective</u> <ul style="list-style-type: none"> - To use a form to record information <u>Success Criteria</u> <ul style="list-style-type: none"> - I can create multiple questions about the same field - I can explain how information can be recorded - I can order, sort, and group my data cards 	Computer databases <u>Learning Objective</u> <ul style="list-style-type: none"> - To compare paper and computer-based databases <u>Success Criteria</u> <ul style="list-style-type: none"> - I can choose which field to sort data by to answer a given question - I can explain what a 'field' and a 'record' is in a database - I can navigate a flat-file database to compare different views of information 	Using a database <u>Learning Objective</u> <ul style="list-style-type: none"> - To outline how grouping and then sorting data allows us to answer questions <u>Success Criteria</u> <ul style="list-style-type: none"> - I can combine grouping and sorting to answer more specific questions - I can explain how information can be grouped - I can group information to answer questions 	Using search tools <u>Learning Objective</u> <ul style="list-style-type: none"> - To explain that tools can be used to select specific data <u>Success Criteria</u> <ul style="list-style-type: none"> - I can choose multiple criteria to answer a given question - I can choose which field and value are required to answer a given question - I can outline how 'AND' and 'OR' can be used to refine data selection 	Comparing data visually <u>Learning Objective</u> <ul style="list-style-type: none"> - To explain that computer programs can be used to compare data visually <u>Success Criteria</u> <ul style="list-style-type: none"> - I can explain the benefits of using a computer to create graphs - I can refine a chart by selecting a particular filter - I can select an appropriate chart to visually compare data 	Databases in real life <u>Learning Objective</u> <ul style="list-style-type: none"> - To apply my knowledge of a database to ask and answer real-world questions <u>Success Criteria</u> <ul style="list-style-type: none"> - I can ask questions that will need more than one field to answer - I can present my findings to a group - I can refine a search in a real-world context 	Assessment, Consolidation and Review
Key Vocabulary	Database, data, information, record, field, sort, order, group	Database, data, field, record, sort, order	Database, record, field, group, search, sort, order	Database, record, field, value, search, criteria	Database, record, field, graph, chart, axis, compare, filter	Database, field, record, graph, chart, presentation	
KS2 Computing NC Links	2.5, 2.6	2.5, 2.6	2.5, 2.6	2.5, 2.6	2.5, 2.6	2.5, 2.6	
Computing Strand	DI, ET	DD, DI	DI	DI, ET	DI, ET	DI, ET	
Education for a Connected World							

Emerald Year 5 – Computing Medium Term Planning (Upper KS2 Curriculum – Year A)

[illegible]

Emerald Year 5 – Computing Medium Term Planning

(Upper KS2 Curriculum – Year A)

	<u>Week 1</u>	<u>Week 2</u>	<u>Week 3</u>	<u>Week 4</u>	<u>Week 5</u>	<u>Week 6</u>	<u>Week 7</u>
Summer second half Programming B – Selection in Quizzes	Exploring conditions <u>Learning Objective</u> - To explain how selection is used in computer programs <u>Success Criteria</u> - I can identify conditions in a program - I can modify a condition in a program - I can recall how conditions are used in selection	Selecting outcomes <u>Learning Objective</u> - To relate that a conditional statement connects a condition to an outcome <u>Success Criteria</u> - I can create a program with different outcomes using selection - I can identify the condition and outcomes in an ‘if.. then...else’ statement - I can use selection in an infinite loop to check a condition	Asking questions <u>Learning Objective</u> - To explain how selection directs the flow of a program <u>Success Criteria</u> - I can design the flow of a program which contains ‘if... then... else...’ - I can explain that program flow can branch according to a condition - I can show that a condition can direct program flow in one of two ways	Planning a quiz <u>Learning Objective</u> - To design a program which uses selection <u>Success Criteria</u> - I can identify the outcome of user input in an algorithm - I can outline a given task - I can use a design format to outline my project	Testing a quiz <u>Learning Objective</u> - To create a program which uses selection <u>Success Criteria</u> - I can implement my algorithm to create the first section of my program - I can share my program with others - I can test my program	Evaluating a quiz <u>Learning Objective</u> - To evaluate my program <u>Success Criteria</u> - I can extend my program further - I can identify ways the program could be improved - I can identify what setup code I need in my project	Assessment, Consolidation and Review
Key Vocabulary	Selection, condition, true, false, count-controlled loop	Selection, condition, true, false, outcomes, conditional statement (the linking together of a condition and outcomes), algorithm, program, debug	Selection, condition, true, false, outcomes, question, answer, algorithm, program, debug	Task, design, algorithm, input, program, selection, condition, outcomes	Implement, design, algorithm, program, selection, condition, outcome, test, run	Implement, design, algorithm, program, debug, test, setup, selection, condition, outcome, share, evaluate, constructive	
KS2 NC Links	2.1, 2.2, 2.3, 2.6	2.1, 2.2, 2.3, 2.6	2.1, 2.2, 2.3, 2.6	2.1, 2.2, 2.3, 2.6	2.1, 2.2, 2.3, 2.6	2.1, 2.2, 2.3, 2.6	
Computing Strand	AL, PG	AL, PG	AL, PG	DD, PG	DD, PG	DD, PG	
Education for a Connected World							