

Year 8 Curriculum Overview [2022-2023]
Subject – Computing

Knowledge & Understanding			Literacy Skills	Employability Skills	Assessment Opportunities
Composites	Components [includes understanding of KEY concepts & subject specific vocab]	Formal Retrieval [if any]	Opportunities for developing literacy skills	Employability Skills [if any]	Assessment Opportunities
Half Term 1 and 2 (6 lessons) – Block & Text Based programming					
<i>National Curriculum Links – 3.1,3.2, 3.3, 3.4, 3.7, 3.8, 3.9</i> <i>Taxonomy Strands – AL, ET, DI, DD, ET</i> <i>Computing Strands – DL, IT, CS</i> <i>Education for a Connected World – 5, 6, 8</i>		<i>Resources</i> Lessons Assessments			
<i>Hardware and software required</i> <i>Edublocks online- https://edublocks.org/</i> <i>You can create a teacher account to set and collect assignments</i>		<i>Additional Resources</i> https://curriculum.edublocks.org/ https://edublocks.org/123-basic-set.pdf? https://app.edublocks.org/guides			
<ul style="list-style-type: none"> • Block programming • Text programming • 	<ul style="list-style-type: none"> • Computational thinking • Decomposition • Abstraction • Variables 	<ul style="list-style-type: none"> • E- safety • Algorithms • Sequence • Selection • iteration 	<ul style="list-style-type: none"> • Writing instructions • Reading • Predicting • Interpreting • Key words 	<ul style="list-style-type: none"> • Problem solving • Resilience • Collaboration • Computational Thinking 	<ul style="list-style-type: none"> • Completed program • Assessment grid

Year 8 Curriculum Overview [2022-2023]

Subject – Computing

Knowledge & Understanding			Literacy Skills	Employability Skills	Assessment Opportunities
Composites	Components [includes understanding of KEY concepts & subject specific vocab]	Formal Retrieval [if any]	Opportunities for developing literacy skills	[if any]	[if any]

Half Term 3 and 4 (6 lessons) - Computing Systems

National Curriculum Links – 3.4, 3.5, 3.6, 3.9
Taxonomy Strands – ET, PG, CS, IT, DI, NW
Computing Strands – DL, IT, CS
Education for a Connected World – 7, 8

Resources
[Lessons](#)

Hardware and software required
If any old computers are available or components eg mouse, keyboard, CPU etc

Additional Resources

www.computerhistory.org
teachinglondoncomputing.org/resources/inspiring-unplugged-classroom-activities/the-intelligent-piece-of-paper-activity
thecrashcourse.com/courses/computerscience
www.youtube.com/watch?v=5ocq6_3-nEw
jessecrossen.github.io/ttsim
www.khanacademy.org/computing/computer-science#how-computers-work
en.wikipedia.org
youtu.be/DFBbSTvtpy4

youtu.be/CO67EQ0ZWgA
youtu.be/n-zeeRLBgD0
teachablemachine.withgoogle.com
experiments.withgoogle.com/collection/ai
quickdraw.withgoogle.com
machinelearningforkids.co.uk
projects.raspberrypi.org
code.org/oceans

<ul style="list-style-type: none"> Hardware Software Data Artificial Intelligence 	<ul style="list-style-type: none"> algorithms Input and Output Devices Types of Software Binary Representation of images and sound 	<ul style="list-style-type: none"> Hardware Software Denary/Base 10 Algorithms E safety 	<ul style="list-style-type: none"> Reading Extended questions Verbal responses Listening Key words 	<ul style="list-style-type: none"> Problem solving Collaboration Computer Systems knowledge Legal 	<ul style="list-style-type: none"> Summative assessment – Lesson 6 Presenting learning
---	---	--	---	---	--

Year 8 Curriculum Overview [2022-2023]

Subject – Computing

Knowledge & Understanding			Literacy Skills	Employability Skills	Assessment Opportunities
Composites	Components [includes understanding of KEY concepts & subject specific vocab]	Formal Retrieval [if any]	Opportunities for developing literacy skills	Skills [if any]	
Half Term 5 and 6 (6 lessons) - Developing for the web					
<i>National Curriculum Links – 3.1, 3.3, 3.4, 3.7, 3.8, 3.9</i> <i>Taxonomy Strands – AL, CM, CS, DD, DI, ET, IT, NW, PG</i> <i>Computing Strands – DL, IT, CS</i> <i>Education for a Connected World – 1, 3, 4, 7, 8</i>		<i>Resources</i> Lessons			
<i>Hardware and software required</i> <i>plain text editor for writing HTML and CSS (eg Windows Notepad, or Repl.it, Edublocks as an online alternative)</i> <i>Vector graphics editor (eg inkscape or photopea)</i>		<i>Additional Resources</i> www.w3schools.com/html www.w3schools.com/css www.w3schools.com/cssref		inkscape.org https://www.photopea.com/	
<ul style="list-style-type: none"> Graphic design Web design 	<ul style="list-style-type: none"> WWW HTML CSS User Interface Bitmap/vector 	<ul style="list-style-type: none"> E- safety Computational Thinking Acting responsibly online Shapes formatting 	<ul style="list-style-type: none"> Planning Concise writing User specific literacy 	<ul style="list-style-type: none"> Problem solving Resilience Collaboration Audience expectations 	<ul style="list-style-type: none"> Summative assessment – Lesson 6 Assessment of final product/website