Our Hawridge & Cholesbury curriculum provides opportunities for our children to be;
Fascinated
Rounded
Eager to make a difference
Spiritual
Hold high aspirations
Learning through nature
Active learning



Computing Long Term Overview

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
W	N/A					
Year 1	Computing systems and networks — technology around us Technology in our classroom Using technology Developing mouse skills Using a keyboard Developing keyboard skills Using a keyboard skills	Creating media – digital painting How can we paint using computers? Using shapes and lines Making careful choices Why did I choose that? Painting all by myself Comparing computer art and painting	 Moving a robot Buttons Directions Forwards and backwards Four directions Getting there Routes 	 Label and match Group and count Describe an object Making different groups Comparing groups Answering questions 	Creating media – digital writing Exploring the keyboard Adding and removing text Exploring the toolbar Making changes to text Explaining my choices Pencil or keyboard	Programming animations Comparing tools Joining blocks Make a change Adding sprites Project design Following my design

Year 2	Computing systems and networks – IT around us What is IT? IT in school IT in the world The benefits of IT Using IT safely Using IT in different ways Curriculum flashback – Year 1 – Computing	Creating media – digital photography Taking photographs Landscape or portrait What makes a good photograph Lighting Effects Is it real?	Robot algorithms Giving instructions Same but different Making predictions Mats and routes Algorithm design Debugging Curriculum flashback – Year 1 – Moving a robot	Pictograms	Digital music How music makes us feel Rhythms and patterns How music can be used Notes and tempo Creating digital music Reviewing and editing music	Programming quizzes ScratchJr recap Outcomes Using a design Changing a design Designing and creating a program Evaluating
Year 3	systems and networks Computing systems and networks – Connecting computers How does a digital device work? What parts make up a digital device How do digital devices help us How am I connected How are computers connected What does our school network look like	Creating media — Stop- frame animation Can a picture move? Frame by frame Whats the story? Picture perfect Evaluate and make it great Lights, camera, action! Curriculum flashback — Year 1, 2 — Creating media	Sequencing sounds Introduction to scratch Programming sprites Sequences Ordering commands Looking good Making an instrument	Pranching databases Yes or no questions Making groups Creating a branching database Structuring a branching database Using a branching database Two ways of presenting information Curriculum flashback – Year 1 – Grouping data	Words and pictures Can you edit it? Great template! Can you add content? Lay it out Why desktop publishing?	Events and actions in programs

Year 4	Curriculum flashback – Year 1 & 2 – Computing systems and networks Computing systems and networks – The internet Connecting networks What is the internet made of? Sharing information What is a website? Who owns the web? Can I believe what I read? Curriculum flashback – Year 1, 2, 3 – Computing systems and networks	Audio production Digital recording Recording sounds Creating a podcast Editing digital recordings Combining audios Evaluating podcasts Curriculum flashback — Year 3 — Sequencing sounds	Repetition in shapes Programming a screen turtle Programming letters Patters and repeats Using loops to create shapes Breaking things down Creating a program	Data logging	Photo editing Changing digital images Changing the composition of images Changing images for different uses Retouching images images Fake images Making and evaluating a publication	Repetition in games Using loops to create shapes Different loops Animate your name Modifying a game Designing a game Creating our games
Year 5	Computing systems and networks – Systems and searching Systems Computer systems and us Searching the web Selecting search	Video production What is video Filming techniques Using a storyboard Planning a video Importing and editing video	Selection in physical computing	Flat-file databases	Introduction to vector graphics The drawing tools Creating images Making effective drawings Layers and objects	Selection in quizzes Exploring conditions Selecting outcomes Asking questions Planning a

results • How search results are ranked • How are searches influenced Curriculum flashback – Year 1, 2, 3, 4 – Computing systems and networks	Video evaluation	 Starting with selection Drawing designs Writing and testing algorithms 	visually • Databases in real life Curriculum flashback – Year 3, 4 – Databases/data logging	 Manipulating objects Create a vector drawing 	 Testing a quiz Evaluating a quiz Curriculum flashback – Year 2 – Programming quizzes
Year 6 Computing systems and networks — communication and collaboration Internet addresses Data packets Working together Shared working How we communicate Communicate Communicating responsibility Curriculum flashback — Year 1, 2, 3, 4, 5 — Computing systems and networks	Creating media – Web page creation What makes a good website How would you layout your web page Copyright or CopyWRONG? How does it look? Follow the breadcrumbs Think before you link Curriculum flashback – Year 1, 2, 3 – Creating media	Programming A — Variables in games Introducing variables Variables in programming Improving a game Designing a game Design to code Improving and sharing	Data and information – Introduction to spreadsheets	Introduction to 3D modelling Modifying 3D objects Make your own name badge Making a desk tidy Planning a 3D model Make your own 3D model	Programming B - Sensing movement The micro:bit Go with the flow Sensing inputs Finding your way Designing a step counter Making a step counter Curriculum flashback - Year 3 — Events and actions in programming