

Computing Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Foxes Years 1 and 2 Year A	<p>1. Computing systems and networks – Technology around us – From Year 1</p> <ul style="list-style-type: none"> - Lesson 1 Technology in our classroom - Lesson 2 Using technology - Lesson 3 Developing mouse skills - Lesson 4 Using a computer keyboard - Lesson 5 Developing keyboard skills - Lesson 6 Using a computer responsibly 	<p>1. Computing systems and networks – IT around us – from Year 2</p> <ul style="list-style-type: none"> - Lesson 1 What is IT? - Lesson 2 IT in school - Lesson 3 IT in the world - Lesson 4 The benefits of IT - Lesson 5 Using IT safely - Lesson 6 Using IT in different ways 	<p>2. Creating media – Digital painting – From year 1</p> <ul style="list-style-type: none"> - Lesson 1 How can we paint using computers? - Lesson 2 Using shapes and lines - Lesson 3 Making careful choices - Lesson 4 Why did I choose that? - Lesson 5 Painting all by myself - Lesson 6 Comparing computer art and painting 	<p>2. Creating media – Digital photography – From Year 2</p> <ul style="list-style-type: none"> - Lesson 1 Taking Photographs - Lesson 2 Landscape or portrait? - Lesson 3 What makes a good photograph? - Lesson 4 Lighting - Lesson 5 Effects - Lesson 6 Is it real? 	<p>3. Programming A – Moving a robot – From Year 1</p> <ul style="list-style-type: none"> - Lesson 1 Buttons - Lesson 2 Directions and backwards - Lesson 3 Forwards and backwards - Lesson 4 Four directions - Lesson 5 Getting there - Lesson 6 Routes 	<p>3. Programming A – Robot algorithms – From Year 2</p> <ul style="list-style-type: none"> - Lesson 1 Giving instructions - Lesson 2 Same but different - Lesson 3 Making predictions - Lesson 4 Mats and routes - Lesson 5 Algorithm design - Lesson 6 Debugging
Online Safety	Unit 01: Think before you share – Activity 1,	Unit 02: Check it's for real – Activity 1,	Unit 03: Protect Your Stuff – Activity 1,	Unit 04: Respect Each Other – Activity 1,	Unit 05: When In Doubt, Discuss – Activity 1	
Foxes Years 1 and 2	4. Data and information –	4. Data and information –	5. Creating media – Digital writing (from Year 1)	5. Creating media - Digital music (from year 2)	6. Programming B - Programming	6. Programming B - Programming quizzes From Year 2

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<p>Year B</p>	<p>Grouping data – From Year 1</p> <ul style="list-style-type: none"> - Lesson 1 Label and match - Lesson 2 Group and count - Lesson 3 Describe an object - Lesson 4 Making different groups - Lesson 5 Comparing groups - Lesson 6 Answering questions 	<p>Pictograms – From Year 2</p> <ul style="list-style-type: none"> - Lesson 1 Counting and comparing - Lesson 2 Enter the data - Lesson 3 Creating pictograms - Lesson 4 What is an attribute? - Lesson 5 Comparing people - Lesson 6 Presenting information 	<ul style="list-style-type: none"> - Lesson 1 Exploring the keyboard - Lesson 2 Adding and removing text - Lesson 3 Exploring the toolbar - Lesson 4 Making changes to text - Lesson 5 Explaining my choices <ul style="list-style-type: none"> - Lesson 6 Pencil or keyboard 	<ul style="list-style-type: none"> - Lesson 1 How music makes us feel - Lesson 2 Rhythms and patterns - Lesson 3 How music can be used - Lesson 4 Notes and tempo - Lesson 5 Creating digital music - Lesson 6 Reviewing and editing music 	<p>animations From Year 1</p> <ul style="list-style-type: none"> - Lesson 1 Comparing tools Lesson 2 Joining blocks Lesson 3 Make a change Lesson 4 Adding sprites Lesson 5 Project design Lesson 6 Following my design 	<ul style="list-style-type: none"> - Lesson 1 ScratchJr recap - Lesson 2 Outcomes - Lesson 3 Using a design - Lesson 4 Changing a design - Lesson 5 Designing and creating a program - Lesson 6 Evaluating
<p>Online Safety</p>	<p>Unit 01: Think before you share – Activity 2,</p>	<p>Unit 02: Check it's for real – Activity 2,</p>	<p>Unit 03: Protect Your Stuff – Activity 2</p>	<p>Unit 04: Respect Each Other – Activity 2</p>	<p>Unit 05: When In Doubt, Discuss – Activity 2</p>	
<p>Hedgehogs Years 3 and 4 Year A</p>	<p>1. Computing systems and networks – Connecting</p>	<p>1. Computing systems and networks – The Internet (From Year 4)</p>	<p>2. Creating media - Stop-frame animation (from Year 3)</p>	<p>2. Creating media - Audio production (from Year 4)</p>	<p>3. Programming A - Sequencing sounds (From Year 3)</p>	<p>3. Programming A – Selection in physical computing (From Year 4)</p>

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	<p>computers (from Year 3)</p> <ul style="list-style-type: none"> - Lesson 1 How does a digital device work? - Lesson 2 What parts make up a digital device? - Lesson 3 How do digital devices help us? - Lesson 4 How am I connected? - Lesson 5 How are computers connected? - Lesson 6 What does our school network look like? 	<ul style="list-style-type: none"> - Lesson 1 Connecting networks - Lesson 2 What is the internet made of? - Lesson 3 Sharing information - Lesson 4 What is a website? - Lesson 5 Who owns the web? - Lesson 6 Can I believe what I read? 	<ul style="list-style-type: none"> - Lesson 1 Can a picture move? - Lesson 2 Frame by frame - Lesson 3 What's the story? - Lesson 4 Picture perfect - Lesson 5 Evaluate and make it great - Lesson 6 Lights, camera, action! 	<ul style="list-style-type: none"> - Lesson 1 Digital recording - Lesson 2 Recording sounds - Lesson 3 Creating a podcast - Lesson 4 Editing digital recordings - Lesson 5 Combining audio - Lesson 6 Evaluating podcasts 	<ul style="list-style-type: none"> - Lesson 1 Introduction to Scratch - Lesson 2 Programming sprites - Lesson 3 Sequences - Lesson 4 Ordering commands - Lesson 5 Looking good - Lesson 6 Making an instrument 	<ul style="list-style-type: none"> - Lesson 1 Programming a screen turtle - Lesson 2 Programming letters - Lesson 3 Patterns and repeats - Lesson 4 Using loops to create shapes - Lesson 5 Breaking things down - Lesson 6 Creating a program
Online safety	Unit 01: Think before you share – Activity 3,	Unit 02: Check it's for real – Activity 3,	Unit 03: Protect Your Stuff – Activity 3,	Unit 04: Respect Each Other – Activity 3,	Unit 05: When In Doubt, Discuss – Activity 3,	Digital Well-being: Lesson 1
Hedgehogs Years 3 and 4 Year B	4. Data and information – Branching databases (from Year 3)	4. Data and information – Data logging (from Year 4)	5. Creating media – Desktop publishing (From year 3)	5. Creating media – Photo editing (from Year 4)	6. Programming B - Events and actions in programs (from Year 3)	6. Programming B – Repetition in games (from Year 4)

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	<ul style="list-style-type: none"> - Lesson 1 Yes or no questions - Lesson 2 Making groups - Lesson 3 Creating a branching database - Lesson 4 Structuring a branching database - Lesson 5 Using a branching database - Lesson 6 Two ways of presenting information 	<ul style="list-style-type: none"> - Lesson 1 Answering questions - Lesson 2 Data collection - Lesson 3 Logging - Lesson 4 Analysing data - Lesson 5 Data for answers Lesson 6 Answering my question 	<ul style="list-style-type: none"> - Lesson 1 Words and pictures - Lesson 2 Can you edit it? - Lesson 3 Great template! - Lesson 4 Can you add content? - Lesson 5 Lay it out Lesson 6 Why desktop publishing? 	<ul style="list-style-type: none"> - Lesson 1 Changing digital images - Lesson 2 Changing the composition of images - Lesson 3 Changing images for different uses - Lesson 4 Retouching images - Lesson 5 Fake images Lesson 6 Making and evaluating a publication 	<ul style="list-style-type: none"> - Lesson 1 Moving a sprite - Lesson 2 Maze movement - Lesson 3 Drawing lines - Lesson 4 Adding features - Lesson 5 Debugging movement Lesson 6 Making a project 	<ul style="list-style-type: none"> - Lesson 1 Using loops to create shapes - Lesson 2 Different loops - Lesson 3 Animate your name - Lesson 4 Modifying a game - Lesson 5 Designing a game Lesson 6 Creating our games
Online Safety	Unit 01: Think before you share – Activity 4,	Unit 02: Check it's for real – Activity 4,	Unit 03: Protect Your Stuff – Activity 4,	Unit 04: Respect Each Other – Activity 4,	Unit 05: When In Doubt, Discuss – Activity 4,	Digital Well-being: Lesson 2
Badgers Years 5 and 6 Year A	1. Computing systems and networks - Systems and searching (from Year 5)	1. Computing systems and networks - Communication and collaboration (from Year 6)	2. Creating media - Video production (from Year 5)	2. Creating media – Web page creation (from Year 6)	3. Programming A – Selection in physical computing (from Year 5)	3. Programming A – Variables in games – (From Year 6)

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	<ul style="list-style-type: none"> - Lesson 1 Systems - Lesson 2 Computer systems and us - Lesson 3 Searching the web - Lesson 4 Selecting search results - Lesson 5 How search results are ranked - Lesson 6 How are searches influenced 	<ul style="list-style-type: none"> - Lesson 1 Internet addresses <li style="padding-left: 20px;">- Lesson 2 Data packets <li style="padding-left: 20px;">- Lesson 3 Working together <li style="padding-left: 20px;">- Lesson 4 Shared working <li style="padding-left: 20px;">- Lesson 5 How we communicate <li style="padding-left: 20px;">- Lesson 6 Communicating responsibly 	<ul style="list-style-type: none"> - Lesson 1 What is video? - Lesson 2 Filming techniques - Lesson 3 Using a storyboard - Lesson 4 Planning a video - Lesson 5 Importing and editing video Lesson 6 Video evaluation 	<ul style="list-style-type: none"> - Lesson 1 What makes a good website? - Lesson 2 How would you layout your web page? - Lesson 3 Copyright or CopyWRONG? - Lesson 4 How does it look? - Lesson 5 Follow the breadcrumbs - Lesson 6 Think before you link! 	<ul style="list-style-type: none"> - Lesson 1 Connecting Crumbles - Lesson 2 Combining output components - Lesson 3 Controlling with conditions - Lesson 4 Starting with selection - Lesson 5 Drawing designs - Lesson 6 Writing and testing algorithms 	<ul style="list-style-type: none"> - Lesson 1 Introducing variables - Lesson 2 Variables in programming - Lesson 3 Improving a game - Lesson 4 Designing a game - Lesson 5 Design to code - Lesson 6 Improving and sharing
Online Safety	Unit 01: Think before you share – Activity 5,	Unit 02: Check it's for real – Activity 5,	Unit 03: Protect Your Stuff – Activity 5,	Unit 04: Respect Each Other – Activity 5,	Unit 05: When In Doubt, Discuss – Activity 5,	Digital Well-being: Lesson 3
Badgers Years 5 and 6 Year B	4. Data and information – Flat-file databases (from Year 5)	4. Data and information - Introduction to	5. Creating media – Introduction to vector graphics (from Year 5)	5. Creating media – 3D Modelling (from Year 6)	6. Programming B – Selection in quizzes (from Year 5)	6. Programming B - Sensing movement (from Year 6)

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	<ul style="list-style-type: none"> - Lesson 1 Creating a paper-based database - Lesson 2 Computer databases - Lesson 3 Using a database - Lesson 4 Using search tools - Lesson 5 Comparing data visually - Lesson 6 Databases in real life 	<p>Spreadsheets (from Year 6)</p> <ul style="list-style-type: none"> - Lesson 1 Collecting Data - Lesson 2 Formatting a spreadsheet - Lesson 3 What's the formula? - Lesson 4 Calculate and duplicate - Lesson 5 Event planning - Lesson 6 Presenting data 	<ul style="list-style-type: none"> - Lesson 1 The drawing tools - Lesson 2 Creating images - Lesson 3 Making effective drawings - Lesson 4 Layers and objects - Lesson 5 Manipulating objects <p>Lesson 6 Create a vector drawing</p>	<ul style="list-style-type: none"> - Lesson 1 Introduction to 3D modelling - Lesson 2 Modifying 3D objects - Lesson 3 Make your own name badge - Lesson 4 Making a desk tidy - Lesson 5 Planning a 3D model <p>Lesson 6 Make your own 3D model</p>	<ul style="list-style-type: none"> - Lesson 1 Exploring conditions - Lesson 2 Selecting outcomes - Lesson 3 Asking questions - Lesson 4 Planning a quiz - Lesson 5 Testing a quiz <p>Lesson 6 Evaluating a quiz</p>	<ul style="list-style-type: none"> - Lesson 1 The micro:bit - Lesson 2 Go with the flow - Lesson 3 Sensing inputs - Lesson 4 Finding your way - Lesson 5 Designing a step counter - Lesson 6 Making a step counter
Online safety	Unit 01: Think before you share – Activity 6,	Unit 02: Check it's for real – Activity 6,	Unit 03: Protect Your Stuff – Activity 6,	Unit 04: Respect Each Other – Activity 6,	Unit 05: When In Doubt, Discuss – Activity 6,	Digital Well-being: Lesson 4