

Computing Champion Year 1



I can use the
5 Cs



Communicate:
Find and share
information
online.



Create:
Create digital
projects.



Careful:
Keep myself and
others safe
online.



Code:
Give instructions
using buttons and
blocks.



Computers:
Explain and use the
networks and
systems on devices.

Computers	What technology is around us? (Autumn 1)
	<ul style="list-style-type: none"> • I can give examples of technology. • I can name the main parts of a computer. • I can type and edit using the keyboard. • I can click and drag using the mouse
Careful	<ul style="list-style-type: none"> • I know how to use technology responsibly. • I know that I need to be kind online.
Communicate	What can I write using digital writing? (Spring 1)
	<ul style="list-style-type: none"> ▪ I can add and remove text. ▪ I can use capital letters. ▪ I can use the toolbar to change the font.
Create	What can I create using digital painting? (Spring 1)
	<ul style="list-style-type: none"> ▪ I can use the paint tools to make marks. ▪ I can change the size and colour of the brush. ▪ I can use the line and shape tools.
Code	How can I make a robot move? (Summer 1) How can I programme an animation? (Summer 2)
	<ul style="list-style-type: none"> • I can make a robot move forwards and backwards. • I can make a robot move left and right. • I can combine commands to make a sequence. • I can debug a problem.

Computing Champion Year 2



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Communicate

How can I display data in graphs? (Summer 1)

- I can enter data on a computer
- I can create a digital pictogram
- I can create a block diagram

Create

What makes a good photograph? (Spring 1)

- I can identify devices that can take photographs
- I can take photographs in portrait and landscape
- I can take photos in different lighting
- I can use tools to change and edit my photograph

Code

What code is needed to make a quiz? (Summer 2)

- I can identify the start of a sequence
- I can predict and change the outcome of a sequence
- I can use blocks to create a sequence
- I can programme actions for a sprite
- I can design characters and backgrounds on Scratch Jr

Computers

What IT is around us? (Autumn 1)

- I can identify types of IT and their uses
- I can recognise the different reasons people use IT

Careful

- I can identify rules for keeping safe when using IT
- I can recognise when a photo has been changed
- I can say which information is okay to share



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Computing Champion Year 3



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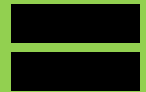
Create:
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Communicate	<p>How can I present information in a magazine? (Autumn 2) How can I show information in a database? (Autumn 2)</p> <ul style="list-style-type: none"> I can change font size, style and colour for a given purpose I can use place holders and understand why they are important I can copy and paste images I can choose a suitable layout for a given purpose
	<ul style="list-style-type: none"> I can separate objects using a branching data base I can write effective questions for a branching data base I can create a branching data base
Create	<p>How do you make a stop-frame animation? (Summer 2)</p> <ul style="list-style-type: none"> I can explain the features of a stop-frame animation I can create a sequence of frames to create a stop-frame animation I can add media to my animation
	<p>What code do I need to move a sprite through a maze? (Spring 1)</p> <ul style="list-style-type: none"> I can recognise the aspects of Scratch (backgrounds, sprites, blocks) I can explain the relationship between an event and an action I can program movement I can build a sequence of events I can debug errors in my programming
Computers	<p>How are computers connected? (Autumn 1)</p> <ul style="list-style-type: none"> I know the difference between input and outputs I can explain how digital devices are used for different activities I can explain how a computer network can be used to share information I can explain how digital devices are connected
	<ul style="list-style-type: none"> I can say who it is safe to share messages with.
Careful	<ul style="list-style-type: none"> I can say who it is safe to share messages with.



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Computing Champion Year 4



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Communicate	How can a computing device help me log data? (Summer 2)
	<ul style="list-style-type: none"> I can explain what data can be collected using sensors I can capture data using a data logger
Create	How can I improve photographs through editing? (Spring 2) How can I use a computer to create music? (Summer 2)
	<ul style="list-style-type: none"> I can crop and rotate images I can use colour effects on a photograph I can add and remove elements using cloning I can combine images for a given purpose I can identify the input and output devices used to record and play sound I can use a computer to record audio I can explain how sounds can be combined to make a podcast more engaging I can edit a sound recording I can export an audio file
Code	How can I use logo coding to create shapes? (Autumn 2) How can I use loops to create a game? (Summer 1)
	<ul style="list-style-type: none"> I can program a computer by typing commands I can explain the effect of changing a value of a command I can use repetition and loop to create shapes and patterns I can choose when to use a count-controlled and an infinite loop I can debug errors in my code I can use repeated sequences to create a game
Computers	What is the World Wide Web? (Autumn 1)
	<ul style="list-style-type: none"> I can understand that the internet is a network of network I can explain what the World Wide Web is I can explain what I can access and share on the internet
Careful	<ul style="list-style-type: none"> I can explain why networks must be protected I can suggest who owns the content on a website I can explain some information may not be honest, accurate or legal



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Computing Champion Year 5



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Communicate	How can I use flat-file databases to handle data? (Spring 2)
	<ul style="list-style-type: none"> I can explain what a field and a record is in a database I can combine grouping and sorting to answer specific questions I can group information using a database I can use 'AND' and 'OR' to refine data selection I can ask questions that will need more than one field to answer
Create	How can I use iMovie to create and edit a video? (Autumn 2)
	<ul style="list-style-type: none"> I can identify features of videos I can use a microphone to capture sound for my video I can use varied camera angles I can improve a video by reshooting and editing I can store, retrieve, and export my recording to a computer
Code	How can selection codes help me create a quiz? (Summer 1) Can I programme a Crumble Kit to make a ride move? (Summer 2)
	<ul style="list-style-type: none"> I can identify and use conditions in a program. I can create a program with different outcomes using selection in infinite loops I can design the flow of a program which contains 'if... then... else...' I can debug errors in my program I can create a simple circuit and connect it to a microcontroller I can use a count-controlled loop to control outputs I can design a conditional loop I can identify a condition and an action in my project I can use selection (an 'if...then...' statement) to direct the flow of a program I can programme the Crumble kit to make a moving ride
Computers	How can I effectively search the internet? (Autumn 1)
	<ul style="list-style-type: none"> I can describe that a computer system features inputs, processes, and outputs I can identify tasks that are managed by computer systems and those with a human element I can compare results from different search engines I can make use of a web search to find specific information
Careful	<ul style="list-style-type: none"> I can describe some of the ways that search results can be influenced or ranked I can recognise some of the limitations of search engines



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Computing Champion Year 6



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Communicate	<p>What makes a good website? (Spring 1) How can I present data in spreadsheet?</p> <ul style="list-style-type: none"> I know that websites are written in HTML I can recognise the common features of a web page I can find copyright-free images I can add content to my own web page I can make multiple web pages and link them using hyperlinks I can create a website with multiple sources of media and text
	<ul style="list-style-type: none"> I can use spreadsheet formulas to solve calculations I can produce tables and charts to present data
Create	<p>How can 3D models help designers? (Summer 1)</p> <ul style="list-style-type: none"> I can add and combine 3D shapes to project I can lift, lower, resize and recolour 3D objects I can duplicate and group 3D objects I can construct a 3D model based on a design
	<p>How can variables be used in computer games? (Autumn 2) How can I use a Micro-Bit to create a step-counter? (Summer 2)</p> <ul style="list-style-type: none"> I can identify examples of information that is variable I can make use of an event in a program to set a variable I can create algorithms to create a game I can debug errors in my game
Code	<ul style="list-style-type: none"> I can transfer my program to a controllable device I can use a variable in an if, then, else statement to select the flow of a program I can use a condition to change a variable I can use an operand (e.g. <=>) in an if, then statement I can design the algorithm for a Micro-Bit
	<p>How can computer networks aid coloration? (Autumn 1)</p> <ul style="list-style-type: none"> I can describe how computers use addresses to access websites I can explain that data is transferred over networks in packets I can send information over the internet in different ways I can identify that there are a variety of ways to communicate over the internet
Computers	<ul style="list-style-type: none"> I can describe how computers use addresses to access websites I can explain that data is transferred over networks in packets I can send information over the internet in different ways I can identify that there are a variety of ways to communicate over the internet
Careful	<ul style="list-style-type: none"> I can recognise that working together on the internet can be public or private I can decide when I should and should not share information online



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