



Jerry Clay Academy: Computing – Year Group Expectations

Year 1					
We are treasure hunters	We are TV chefs	We are painters	We are collectors	We are story tellers	We are celebrating
<ul style="list-style-type: none"> I can follow instructions. I can record a set of instructions. I can program a toy. I can give instructions. I know what input, program and output means for a robot toy. I can give examples of input, program and output. I can create a program. I can spot and correct 	<ul style="list-style-type: none"> I can write and/or draw the steps of a recipe. I can change my recipe to make it better. I know what will happen when others use my recipe. I can use a video camera to record video. I can move files from the camera onto the computer. I can edit video. 	<ul style="list-style-type: none"> I can use a paint program. I can edit an image. I can use a paint program to show details of my character. I can put more than one image into a document. I can save my work. I can save my document in a portable format, for example PDF. I can find images on the web. I know how to let my teacher know if I am worried about an image. 	<ul style="list-style-type: none"> I can look for pictures on the web. I can copy a picture and put it in my presentation. I can move pictures in my presentation. I can resize picture I can sort pictures in order of size. I can choose the best pictures for my collection. I know how to let my teacher know if I am worried about a picture. I know that there are some pictures I can copy and some that I can't. 	<ul style="list-style-type: none"> I can practise the sound effects for my book. I can record the sound effects. I can listen to the sound effects and make them even better. I can practise the dialogue for my book. I can record the dialogue. I can listen to the dialogue and make it even better. I can put the sound effects and dialogue together in my book I can give helpful feedback to my friends. 	<ul style="list-style-type: none"> I can type words. I can type symbols. I can type carefully and check my work for mistakes. I can change the way the words look in my card. I can find pictures on the web. I can edit a picture to suit my card. I can put words and a picture together to make a card. I can listen to my friends' ideas and make my card even better. I can save my work and open it when I next need it.



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<p>mistakes in a program (debug).</p> <ul style="list-style-type: none">• I can predict where a set of instructions will take a toy or person.• I can look for ways to make a program work better		<ul style="list-style-type: none">• I can give helpful feedback to my friends.• I can see how digital images are created.• I can see how images are stored on a computer.• I can make my work even better.	<ul style="list-style-type: none">• I can put pictures into groups.• I can use yes or no questions to find a picture.• I can see how drawings and photos are different.• I can add labels to my presentation.• I know I shouldn't put my name or a photo of myself on the web.	<ul style="list-style-type: none">• I can save my work and open it when I next need it.• I know how my recording is saved on the computer.• I can see how talking books and reading books are different.	<ul style="list-style-type: none">• I know how my card is saved on the computer.• I can see how cards on paper and cards on the computer are different.
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Year 2					
We are astronauts	We are game testers	We are photographers	We are researchers	We are detectives	We are zoologists
<ul style="list-style-type: none"> I can plan a route from one place to another. I can plan a route to more than one place. I can pretend to be a robot and follow instructions. I can program a toy. I can program a sprite to move in Scratch. 	<ul style="list-style-type: none"> I can talk about what happens in a computer game. I can see that a computer game works by following instructions. I can see how computer games are similar. I can predict what will happen in a computer game. I can test a computer game. 	<ul style="list-style-type: none"> I can take photos. I can take photos that are in focus. I can take high quality photos. I can decide if a photo is worth keeping. I can edit photos. I can edit photos to make them look better. I can choose my best photos for our class collection. I can talk about how I took, 	<ul style="list-style-type: none"> I can add questions to a mind map. I can organise questions in my mind map. I can find information to add to my mind map. I can use search engines. I can use the web to find information. I know that it is important to say where I found information. I know that there are some images I can copy and some that I can't. 	<ul style="list-style-type: none"> I can read an email. I can write and reply to an email. I can check my email for mistakes before I send it. I can see if an email and an attachment are from someone I know and trust. I can read and understand the headers of an email. I know how important it is to type an email address correctly. I can see how an email address has two parts. I can see that the domain name in an 	<ul style="list-style-type: none"> I can take photos of bugs. I can take photos of bugs that are in focus and of high quality. I can edit my photos (e.g. cropping). I can label my photos and rate them. I can move my photos onto the computer or to a website. I can use yes or no questions to decide which group a bug fits into. I can create a chart. I can add a title and label the axes of my chart.



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<ul style="list-style-type: none"> • I can program a sprite to move in Scratch using blocks. • I can predict where instructions will take a person, toy or sprite. • I can record instructions to move a toy or sprite from one place to another. • I can record instructions to move a toy or sprite to more than one place. • I can spot and correct 	<ul style="list-style-type: none"> • I can find and understand the code for a computer game in Scratch. • I can change the code for a computer game in Scratch to make it work better. • I know to tell someone if I am worried about a computer game. • I know that some games are for older children. • I can see why it can be hard to stop playing computer games. 	<p>edited and chose my best photos.</p> <ul style="list-style-type: none"> • I can give helpful feedback to my friends. • I know how to let my teacher know if I am worried about an image. • I know that there are some photos I shouldn't put on the web. 	<ul style="list-style-type: none"> • I can find images and add them to my presentation. • I know how to let someone know if I am worried about something on the web. • I can create a presentation that shows my research. • I can use my presentation to teach others about a topic. • I can present information clearly. • I can make my presentation fun and interesting. 	<p>email address gives important information.</p> <ul style="list-style-type: none"> • I can take notes from an email in writing or using an audio recorder. • I can create a spreadsheet. • I can organise a spreadsheet so it shows me the information I need. • I know what to do if I'm worried about opening an email. • I know that I must always be careful about opening emails and attachments. 	<ul style="list-style-type: none"> • I can change the way my chart looks. • I can show my results in different types of charts. • I can use a digital map to find a place. • I can use GPS to show where I found my bugs. • I can add photos to a digital map. • I can add information about my bugs to a digital map. • I can create a presentation showing my research. • I can present my research to my friends.
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<p>mistakes in a program (debug).</p> <ul style="list-style-type: none">• I can solve problems.• I can consider the most efficient solution to a problem.	<ul style="list-style-type: none">• I know that I need to limit the time I spend playing computer games.				
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Year 3					
We are programmers	We are bug fixers	We are presenters	We are network engineers	We are communicators	We are opinion pollsters
<ul style="list-style-type: none"> I can create a storyboard for an animation. I can include action and dialogue in my storyboard. I can write a computer program for an animation. I can put Scratch blocks in the right order. I can correct mistakes in my program. 	<ul style="list-style-type: none"> I can correct 'off-by-one' mistakes in a program. I can make a simple drawing program work better. I can put the dialogue in a program in the right order. I can try out different variables in a simulator game's program. I can describe how a simple maths program works. 	<ul style="list-style-type: none"> I can work a video camera. I can record footage to use in my video. I can upload and edit my footage on a computer. I can record an audio commentary for my video. I can study sports programmes to learn how they are filmed. I can record high quality footage. I can record an audio 	<ul style="list-style-type: none"> I can name some of the hardware that connects computers. I can take part in an activity to show how data passes across the internet. I can use the ping, ipconfig and tracert commands. I can see and understand how networks keep me safe online. I can describe the way hardware works to connect computers. I can describe how data passes across the internet. 	<ul style="list-style-type: none"> I can see how email and video conferencing work on the internet. I can use email and video conferencing to communicate. I can write an email and speak on video to communicate with others. I can follow my school's rules and use email and video conferencing safely. I can see that the internet and the web are different. I can work with my partner well. 	<ul style="list-style-type: none"> I can collect data through the internet. I can show respect for the information people tell me. I can use software to collect data. I can use software to present the results of my data. I can explain how I have used the web to work with others on documents. I can judge how useful my survey forms and presentations are. I can move information between



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<ul style="list-style-type: none"> • I can create sound and graphics for my animation. • I can explain how my storyboard and program are linked. • I can use a repeat block in my program. • I can find and correct 'bugs' in my program. • I can upload my animation to the Scratch website. • I can get ideas from the Scratch website. 	<ul style="list-style-type: none"> • I can describe how a simple drawing program works. • I can describe how the dialogue in a program works. • I can correct a program so the animation is more realistic. • I can describe how a simulator game's program works. • I can explain how I correct 'bugs' in a program. • I can explain how the steps 	<p>commentary with useful information in it.</p> <ul style="list-style-type: none"> • I can export my final video in a standard format. • I can look at my footage and decide what does and doesn't work. • I can record original and interesting footage. • I can use and explain data in my audio commentary. • I can use more difficult editing tools, e.g. creating transitions. 	<ul style="list-style-type: none"> • I can describe how the ping, ipconfig and tracert commands are used. • I can see how I must be careful about sharing things about myself on the internet. • I can talk about how my classroom computer is linked to a web server abroad. • I can talk about some of the different ways data is passed across the internet. • I can talk about the output from the ping, ipconfig, tracert and nslookup commands. 	<ul style="list-style-type: none"> • I can show respect for my partner's ideas. • I can let my teacher know if I am unsure about something in an email. • I can work independently with my partner to plan our work. • I can tell my partner what I think does and doesn't work. • I can explain some of the dangers of emails and opening email attachments. 	<p>different applications.</p> <ul style="list-style-type: none"> • I can look at data and explain what it shows me. • I can explain how a Google data centre server and the internet collect and deliver data. • I can see how important it is to keep a person's data private. • I can judge my data and see what does and doesn't look right. • I can work independently to collect, present and judge data.
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	<p>in a program are linked.</p> <ul style="list-style-type: none">• I can explain how I correct the order of dialogue in a program.• I can describe how a 'Pong'-style program works.• I can suggest reasons for the 'bug' in the simulator game's program.				
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Year 4					
We are software developers	We are toy designers	We are musicians	We are HTML editors	We are co-authors	We are meteorologists
<ul style="list-style-type: none"> • I can design an interactive educational game. • I can develop an interactive educational game. • I can put Scratch blocks in the right order. • I can use the if/then/else block correctly. • I can use the random number block and use variables to work out the score. 	<ul style="list-style-type: none"> • I can design a toy with computer-controlled input and output. • I can write a program to show how my toy would produce output • I can use Scratch to test how input and output would work in my toy. • I can use Scratch to work out why my toy may not work as expected. • I can use Scratch to create a version 	<ul style="list-style-type: none"> • I can explain how technology can be used to create music. • I can use sequencing software to create a piece of music. • I can record my own sound samples. • I can mix sound samples to create a piece of music. • I can export the file of my piece of music in a standard, compressed format. 	<ul style="list-style-type: none"> • I can see how the internet and the web are different. • I can see that web pages are written in HTML. • I can use some HTML tags. • I can edit the HTML for a web page. • I can create web pages that keep another person's details private. • I can explain the parts of a URL. • I can see how important links are for the web. 	<ul style="list-style-type: none"> • I can find and read an article on Wikipedia. • I can create content for a wiki. • I can edit the content on my wiki. • I can edit the HTML for a web page. • I can show where I found information I used in my research. • I can work with others to plan a project. • I can work out if an article is 	<ul style="list-style-type: none"> • I can use weather measurement equipment safely. • I can enter weather data in a spreadsheet. • I can take digital photos. • I can create simple charts. • I can make predictions about the weather. • I can create a presentation for my weather forecast. • I can use weather measurement equipment accurately.



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<ul style="list-style-type: none"> • I can include sound in my game. • I can correct mistakes in my game. • I can plan my own way to program my game. • I can use a countdown timer. • I can use the mouse to control my game. • I can explain how the algorithm of my game works. 	<p>of my toy with computer-controlled input and output.</p> <ul style="list-style-type: none"> • I can use Scratch to create a version of my toy using both mouse and keyboard input. • I can find and correct 'bugs' in my program. • I can explain how I find and correct 'bugs' in my program. • I can work out ways around problems by breaking them into smaller steps. 	<ul style="list-style-type: none"> • I can explain how people listen to and buy music through technology. • I can edit sound samples. • I can work on and make my piece of music better. • I can edit my final piece of music. • I can use software that uses staff notation. • I can compare creating a piece of music to creating a program. 	<ul style="list-style-type: none"> • I can use the <code>...</code> tag correctly. • I can create a web page by writing HTML. • I can be safe and responsible when I create a web page. • I can show I understand how HTTP works. • I can show I know about the history of the web. • I can use the <code></code> and <code><iframe>...</iframe></code> tags. 	<p>accurate and reliable.</p> <ul style="list-style-type: none"> • I can edit another person's content. • I can edit content on Wikipedia. • I can plan a project by breaking it into smaller parts. • I can see how important it is that content is fair and balanced. • I can see how important Wikipedia's Five pillars are. 	<ul style="list-style-type: none"> • I can describe the weather. • I can make sensible predictions about the weather. • I can add measurements and descriptions to photos. • I can present an interesting and useful weather forecast to my classmates. • I can spot weather data that looks unusual. • I can make accurate predictions. • I can see what some of the problems are in
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		<ul style="list-style-type: none">• I can respect other people's copyright.			predicting the weather.
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Year 5					
We are game developers	We are Cryptographers	We are artists	We are web developers	We are bloggers	We are architects
<ul style="list-style-type: none"> I can create a storyboard or diagram for an algorithm for my game. I can create sound and graphics in Scratch for my game. I can put instructions in the right order for my game. I can find mistakes in my game. I can create and add music for my game. I can use selection and 	<ul style="list-style-type: none"> I can send and receive messages in Morse code and semaphore. I can create and decode secret messages using the Caesar and substitution ciphers. I can see how important it is to keep passwords secret. I can see how secret code needs to be used sometimes when using the web. 	<ul style="list-style-type: none"> I can create a tessellating pattern. I can write a program to draw a simple shape. I can create a pattern using overlapping shapes. I can create a pattern using different repeated shapes. I can create a computer-generated image of a landscape. I can create a tessellating pattern using more complicated 	<ul style="list-style-type: none"> I can check and comment on others' content. I can see how Google chooses and shows web pages in a search. I can name other search engines. I can create and organise others' content on e-safety and using technology properly. I can create and organise others' content for sharing worries about information seen and received on the web. I can create and organise others' 	<ul style="list-style-type: none"> I can use blogs safely and responsibly. I can see that the internet makes blogging possible. I can write a blog post. I can comment on a blog post. I can add an image, audio or video to a blog post. I can see what it takes to create a good blog post. I can see that blog posts are stored as HTML. 	<ul style="list-style-type: none"> I can use the web to find out about virtual art galleries. I can create simple objects using SketchUp. I can create a simple gallery space in SketchUp. I can add furniture to my gallery in SketchUp. I can add my own artwork to my gallery. I can create a virtual tour of my gallery. I can find features that all art galleries share using the web.



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<p>repetition in my game.</p> <ul style="list-style-type: none"> • I can correct mistakes in my game. • I can listen to my partner’s ideas about my game and make it better. • I can add instructions to my game. • I can break my game into smaller parts and work on them separately. • I can animate my characters by creating different graphics for them. 	<ul style="list-style-type: none"> • I can send and receive messages in Morse code and semaphore beyond the line-of-sight. • I can decode a message using the Caesar cipher without knowing the letter key shift. • I can see how important it is to create secure, hard-to-guess passwords. • I can check to see if a web page is in secret code (‘encrypted’). • I can explain how Morse 	<p>shapes.</p> <ul style="list-style-type: none"> • I can use repetition in Scratch to draw a complicated geometric shape. • I can use the tile clone tool to create a pattern using different kinds of shapes. • I can create a computer-generated image of a landscape that looks good. • I can write blocks of script in Scratch to create a complicated geometric shape • I can explain how computers create realistic landscapes. 	<p>content for using the web in the right/wrong way.</p> <ul style="list-style-type: none"> • I can credit others’ information I use on the shared site. • I can decide if web sources are balanced and of a good quality. • I can proofread and correct mistakes in others’ content. • I can use tools to get the best results in my web searches. • I can find and use information from different places to present a summary. • I can make useful and large changes to others’ content when necessary. 	<ul style="list-style-type: none"> • I can comment with respect on others’ blog posts. • I can let others know about blog posts or comments I am worried about. • I can see what is acceptable and unacceptable when commenting on blog posts. • I can add an image, audio or video I have created to a blog post. • I can explain the difference between database-driven sites and static HTML pages. • I can use others’ work in my blog with respect and in the correct way. 	<ul style="list-style-type: none"> • I can create a detailed 3D object using SketchUp. • I can add textures and finishing touches to my gallery using SketchUp. • I can create a virtual tour of my gallery with an audio commentary. • I can create an attractive detailed 3D object using SketchUp. • I can create a detailed series of rooms and spaces in SketchUp. • I can create furniture for my gallery in SketchUp. • I can use Movie Maker to edit the virtual tour of my gallery.
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<ul style="list-style-type: none">• I can use variables in my game.• I can explain how my game works.• I can add comments to the script of my game.	<p>code and semaphore are similar and different from the internet.</p> <ul style="list-style-type: none">• I can explain the algorithm for the Caesar cipher.• I can decode a message which has used a random substitution cipher.• I can create a secure, hard-to-guess password.• I can check the security certificates for a web page.		<ul style="list-style-type: none">• I can explain how Google orders web pages in a search ('Page Rank').	<ul style="list-style-type: none">• I can blog about an event as it happens.	
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Year 6					
We are app planners	We are project managers	We are market researchers	We are interface designers	We are app developers	We are marketers
<ul style="list-style-type: none"> • I can see that a smartphone is a computer. • I can find geotagged photos on a map. • I can come up with interesting problems that I could solve with an app. • I can research apps that already exist that may solve my problem. • I can judge how well apps that already exist work. 	<ul style="list-style-type: none"> • I can make a list of the main steps of my project that need to be completed. • I can make a list of the tasks of my project that need to be completed. • I can make a list of the things I will need to complete the project. • I can create original content for my app. • I can judge how well the 	<ul style="list-style-type: none"> • I can create a survey online. • I can use simple charts to explain what my survey results show. • I can run an interview or a focus group. • I can explain what the information I collect from an interview or focus group shows. • I can present my survey, interview or focus group results. • I can use tables to explain what 	<ul style="list-style-type: none"> • I can sketch my ideas for the design of my app. • I can create screen layouts for my app using a wireframing tool. • I can think about how people will use my app as I design it. • I can see how important it is that everyone should be able to use an app. • I can find media assets (e.g. buttons or backgrounds) for my app. • I can sketch my ideas for a user-friendly design of my app. 	<ul style="list-style-type: none"> • I can create and write an algorithm for my app. • I can convert my algorithm into code. • I can keep testing and improving the algorithm to find the 'bugs' in my code. • I can think through and work out where mistakes are in my algorithm. • I can use sequence, selection, repetition and variables in my code. • I can think through and work out where mistakes are in my code. 	<ul style="list-style-type: none"> • I can create a marketing flyer which includes images and text. • I can create a website for my app which includes images and text. • I can record my own video or find video and content from elsewhere for my app advert. • I can create a persuasive and well-designed marketing flyer for my app. • I can plan and create a well-designed and user-friendly website for my app.



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<ul style="list-style-type: none"> • I can create and present a well-planned presentation for my app. • I can name and describe the inputs and outputs of smartphones. • I can use GPS to find media (e.g. photos) that have been geotagged. • I can show how apps that already exist will solve a problem. • I can explain how search engines order web pages in a search ('Page Rank'). 	<p>work on my app is going.</p> <ul style="list-style-type: none"> • I can spot and list the different parts of my app that will need to be created. • I can see how the members of my group have different skills and talents. • I can put the tasks of my project in an order that will work well. • I can find content from other places to use in my app. • I can use and credit content I use from other places correctly. 	<p>my survey results show.</p> <ul style="list-style-type: none"> • I can use an audio recorder or camera to record an interview or focus group. • I can judge the quality of my survey, interview or focus group results. • I can explain what the audio or video I recorded means for my results. • I can follow the rules for carrying out surveys, interviews or focus groups. • I can create questions for my survey that are 	<ul style="list-style-type: none"> • I can try to design my app so that anyone should be able to use it. • I can create my own media assets for my app. • I can explain how different parts of my app will work together. • I can create user-friendly screen layouts for my app using a wireframing tool. • I can create an attractive design to suit the way people will use my app. • I can follow examples of good design to make sure anyone can use my app. • I can find and credit media assets I use 	<ul style="list-style-type: none"> • I can listen to and act on other people's ideas to improve my code. • I can think through and work out how to correct mistakes in my algorithm. • I can use procedures in my code. • I can think through and work out how to correct mistakes in my code. • I can sort and deal with problems and new features for my app in a sensible order. 	<ul style="list-style-type: none"> • I can see how important e-safety is and that I am responsible for content I create. • I can edit my own and others' content for my app advert. • I can choose software that is best suited for making my flyer. • I can choose the best hosting and development platform for my website. • I can follow the rules for creating and presenting content for a website. • I can choose the best software and hardware available to me to create my advert.
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<ul style="list-style-type: none"> • I can answer questions about my app well. • I can explain how smartphones connect to the internet through the phone network. • I can explain how GPS works and how it can be used in practice. • I can use different types of media (e.g. video) in my app presentation. 	<ul style="list-style-type: none"> • I can work with my group to keep track of how well the project is going. • I can see how to keep working on my skills to make the project a success. • I can see how to improve the planning of the tasks in the project. 	<p>clear and balanced.</p> <ul style="list-style-type: none"> • I can use Pivot Table reports to explain what my survey results show. • I can collect information and ideas from different places for my presentation. • I can choose the software for my project and research on my own. 	<p>from other places correctly.</p>		
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