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| **Year 2 Overview** | | | | |
| **Unit Name** | **Lesson** | **Learning Objectives** | **Success Criteria** | **Cross Curricular Links** |
| **Autumn 1** | | | | |
| Computing systems and networks – IT around us | 1 | Can I recognise the uses and features of information technology? | -I can describe some uses of computers - I can identify examples of computers - I can identify that a computer is a part of IT |  |
| Computing systems and networks – IT around us | 2 | Can I identify the uses of information technology in the school? | -I can identify examples of IT - I can identify that some IT can be used in more than one way - I can sort school IT by what it’s used for |  |
| Computing systems and networks – IT around us | 3 | Can I identify information technology beyond school? | -I can find examples of information technology - I can sort IT by where it is found - I can talk about uses of information technology |  |
| Computing systems and networks – IT around us | 4 | Can I explain how information technology helps us? | -I can demonstrate how IT devices work together - I can recognise common types of technology - I can say why we use IT |  |
| Computing systems and networks – IT around us | 5 | Can I explain how to use information technology safely? | -I can list different uses of information technology - I can say how rules can help keep me safe - I can talk about different rules for using IT |  |
| Computing systems and networks – IT around us | 6 | Can I recognise that choices are made when using information technology? | -I can explain the need to use IT in different ways - I can identify the choices that I make when using IT - I can use IT for different types of activities |  |
| **Autumn 2** | | | | |
| Creating media – Digital photography | 1 | Can I use a digital device to take a photograph? | -I can explain what I did to capture a digital photo - I can recognise what devices can be used to take photographs - I can talk about how to take a photograph | Art and design |
| Creating media – Digital photography | 2 | Can I make choices when taking a photograph? | -I can explain the process of taking a good photograph - I can explain why a photo looks better in portrait or landscape format - I can take photos in both landscape and portrait format | Art and design |
| Creating media – Digital photography | 3 | Can I describe what makes a good photograph? | -I can discuss how to take a good photograph - I can identify what is wrong with a photograph - I can improve a photograph by retaking it | Art and design |
| Creating media – Digital photography | 4 | Can I decide how photographs can be improved? | -I can experiment with different light sources - I can explain why a picture may be unclear - I can explore the effect that light has on a photo | Art and design |
| Creating media – Digital photography | 5 | Can I use tools to change an image? | -I can explain my choices - I can recognise that images can be changed - I can use a tool to achieve a desired effect | Art and design |
| Creating media – Digital photography | 6 | Can I recognise that photos can be changed? | -I can apply a range of photography skills to capture a photo - I can identify which photos are real and which have been changed - I can recognise which photos have been changed | Art and design |
| **Spring 1** | | | | |
| Programming A – Robot algorithms | 1 | Can I describe a series of instructions as a sequence? | -I can choose a series of words that can be enacted as a sequence - I can follow instructions given by someone else - I can give clear instructions | Music |
| Programming A – Robot algorithms | 2 | Can I explain what happens when we change the order of instructions? | -I can show the difference in outcomes between two sequences that consist of the same commands - I can use an algorithm to program a sequence on a floor robot - I can use the same instructions to create different algorithms | Music |
| Programming A – Robot algorithms | 3 | Can I use logical reasoning to predict the outcome of a program? | -I can compare my prediction to the program outcome - I can follow a sequence - I can predict the outcome of a sequence | Music |
| Programming A – Robot algorithms | 4 | Can I explain that programming projects can have code and artwork? | -I can explain the choices I made for my mat design - I can identify different routes around my mat - I can test my mat to make sure that it is usable | Music |
| Programming A – Robot algorithms | 5 | Can I design an algorithm? | -I can create an algorithm to meet my goal - I can explain what my algorithm should achieve - I can use my algorithm to create a program | Music |
| Programming A – Robot algorithms | 6 | Can I create and debug a program that I have written? | -I can plan algorithms for different parts of a task - I can put together the different parts of my program - I can test and debug each part of the program | Music |
| **Spring 2** | | | | |
| Data and information – Pictograms | 1 | Can I recognise that we can count and compare objects using tally charts? | -I can compare totals in a tally chart - I can record data in a tally chart - I can represent a tally count as a total | Maths |
| Data and information – Pictograms | 2 | Can I recognise that objects can be represented as pictures? | -I can enter data onto a computer - I can use a computer to view data in a different format - I can use pictograms to answer simple questions about objects | Maths |
| Data and information – Pictograms | 3 | Can I create a pictogram? | -I can explain what the pictogram shows - I can organise data in a tally chart - I can use a tally chart to create a pictogram | Maths |
| Data and information – Pictograms | 4 | Can I select objects by attribute and make comparisons? | -I can answer ‘more than’/’less than’ and ’most/least’ questions about an attribute - I can create a pictogram to arrange objects by an attribute - I can tally objects using a common attribute | Maths |
| Data and information – Pictograms | 5 | Can I recognise that people can be described by attributes? | -I can choose a suitable attribute to compare people - I can collect the data I need - I can create a pictogram and draw conclusions from it | Maths |
| Data and information – Pictograms | 6 | Can I explain that we can present information using a computer? | -I can give simple examples of why information should not be shared - I can share what I have found out using a computer - I can use a computer program to present information in different ways | Maths |
| **Summer 1** | | | | |
| Creating media - Digital music | 1 | Can I say how music can make us feel? | -I can describe music using adjectives - I can identify simple differences in pieces of music - I can say what I do and don’t like about a piece of music |  |
| Creating media - Digital music | 2 | Can I identify that there are patterns in music? | -I can create a rhythm pattern - I can explain that music is created and played by humans - I can play an instrument following a rhythm pattern |  |
| Creating media - Digital music | 3 | Can I experiment with sound using a computer? | -I can connect images with sounds - I can relate an idea to a piece of music - I can use a computer to experiment with pitch |  |
| Creating media - Digital music | 4 | Can I use a computer to create a musical pattern? | -I can explain how my music can be played in different ways - I can identify that music is a sequence of notes - I can refine my musical pattern on a computer |  |
| Creating media - Digital music | 5 | Can I create music for a purpose? | -I can add a sequence of notes to my rhythm - I can create a rhythm which represents an animal I’ve chosen - I can create my animal’s rhythm on a computer |  |
| Creating media - Digital music | 6 | Can I review and refine our computer work? | -I can explain how I changed my work - I can listen to music and describe how it makes me feel - I can review my work |  |
| **Summer 2** | | | | |
| Programming B - Programming quizzes | 1 | Can I explain that a sequence of commands has a start? | -I can identify that a program needs to be started - I can identify the start of a sequence - I can show how to run my program |  |
| Programming B - Programming quizzes | 2 | Can I explain that a sequence of commands has an outcome? | -I can change the outcome of a sequence of commands - I can match two sequences with the same outcome - I can predict the outcome of a sequence of commands |  |
| Programming B - Programming quizzes | 3 | Can I create a program using a given design? | -I can build the sequences of blocks I need - I can decide which blocks to use to meet the design - I can work out the actions of a sprite in an algorithm |  |
| Programming B - Programming quizzes | 4 | Can I change a given design? | -I can choose backgrounds for the design - I can choose characters for the design - I can create a program based on the new design |  |
| Programming B - Programming quizzes | 5 | Can I create a program using my own design? | -I can build sequences of blocks to match my design - I can choose the images for my own design - I can create an algorithm |  |
| Programming B - Programming quizzes | 6 | Can I decide how my project can be improved? | -I can compare my project to my design - I can debug my program - I can improve my project by adding features |  |