



#### Who are we?

At Lace Hill all children have access to the use of computing regardless of ability, age, culture, disabilities, gender or race. Through our planning we use computing to equip our pupils to understand and change the world through computational thinking. This is by thinking logically, precisely and creatively. The Foundation Stage children have an entitlement to access the EYFS curriculum at appropriate curriculum levels; all KS1 and 2 pupils have an entitlement to access the National Curriculum computing programmes of study at appropriate levels. For children in KS1 and KS2 we are using a bespoke curriculum built on student agency that draws on learning from Teach Computing and project-based approach that uses real world apps and websites that the children will use once they leave primary school.

By using this bespoke compilation, we are encouraging pupils to become critical thinkers, problems solvers and computational thinkers while creating purposeful content to demonstrate how learning can be applied across the wider curriculum.

The aim of this approach is to provide lessons that deepen children's knowledge of computing so they can creatively apply their learning across the curriculum in a personalised and accessible way.

### What do we need to know? Why?

At the very beginning of our pupil's journey at Lace Hill we provide opportunities for the children to explore the different types of everyday technology we use and make available interactive software for children to explore during their self-chosen activities and thus gain an understanding of the safe and appropriate use of technology. We then develop basic understanding of the hardware and software to manipulate information. Throughout their time at Lace Hill we will be developing their computing competence in their knowledge and understanding of the importance of information and communication technology.

The computing opportunities in our school will ensure that the pupils understand and apply the fundamental principles of computing science (logic, algorithms, data representation and communication) and become digitally literate at a suitable level for future workplace and as active participants in our digital world.

| What do we need to experience? Why?  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| When a child leaves our school they will   | I am a Lace Hill digital learner because   |  |  |  |  |  |
| <ul> <li>Be a confident person</li> <li>Be an independent thinker and self-starter</li> <li>Empathise with others</li> <li>Have an inquisitive mind</li> <li>Take risks with their learning</li> <li>Bounce back and move forward when faced with a challenge</li> <li>Be proactive and innovative</li> <li>Have a sense of belonging</li> </ul> | <ul> <li>I feel confident when using technology</li> <li>I understand the importance of being safe online</li> <li>I can interpret what I have learnt and apply it to technology around me</li> <li>I can solve problems using different strategies</li> <li>I enjoy exploring different applications, programs and software</li> <li>I can help those around me with the knowledge I have learnt</li> </ul> |  |  |  |  |  |





| Three Pillars  | Declarative knowledge - What   | Procedural knowledge - How   | Conditional knowledge - when   |
|--|--|--|--|
| Computer Science  - Coding/Programming - Computational thinking - Problem solving  Information Technology - Using technology to demonstrate understanding - Use of multimedia to create digital artefacts                              | Computer Science - What is an algorithm? Information Technology - What are applications? Digital Literacy - Where can I get support if I need it?  Vocabulary:  Know, Identify, Describe, Explain, | Computer Science  - How to write an algorithm Information Technology  - Create my own app prototype. Digital Literacy  - How to safely use a new application.  Vocabulary:  Perform, Execute, Create, Construct,   | Conditional knowledge - when  Computer Science  I can evaluate and change my algorithm  Information Technology  I can decide when I need to change the font on a presentation  Digital Literacy  I know when to speak to an adult  Vocabulary: |
| - Education for a Connected World (DfE 2020)  Self-Image and Identity Online Relationships Online reputation Online Bullying Managing Online Information Health, Well-being and lifestyle Privacy and Security Copyright and Ownership | Define, List, Recognise, State, Recall, Understand, Summarise, Label, Name, Distinguish, Classify  | Demonstrate, Operate, Assemble, Build, Implement, Compose, Design, Develop, Manipulate, Produce, Use  I on a Lace Hill digital learner because the same of the sam | Apply, Decide, Determine, Evaluate, Judge, Select, Choose, Adapt, Modify, Assess, Recommend, Justify, Analyse, Critique, Reflect   |





At Lace Hill we will provide opportunities through a cross-curriculum links with the teaching of mathematics, science, and Design and Technology to ensure pupils become digitally literate at a suitable level for future workplace and as active participants in a digital world. At Lace Hill we also want to provide opportunities to develop interests, knowledge and expertise in computing for teaching and non-teaching staff, as the children will learn and experience from a varied wealth and breadth of skills and knowledge.

Each class has access to iPads and laptops to enable them to use technology throughout the curriculum. Learning can then be evidenced through the use of Padlet. On Padlet students upload pictures, voice notes, videos and their work to capture learning.

By using technology throughout the curriculum this will break down many barriers that might make learning more challenging for pupils. We also firmly believe that if it's necessary for some then it's good for all.

In KS1 Digital Literacy and E-Safety will be taught through stories. It is important for children to be able to communicate and articulate their learning. Therefore, it must be presented in a recognisable and accessible format. In KS2 Digital literacy will be taught explicitly in Autumn 1 to best prepare the children for the year. We believe that although it is important to cover these objectives explicitly, many of these themes will be covered in our Computer Science and Information Technology lessons. Children will be using a new range of apps, accessing different websites so need to have a constantly developing knowledge of digital literacy that can be applied in contexts.

See below table coverage for the 8 main themes.

| Colour | Topic                   | 3 | 4 | 5 | 6 |
|--------|-------------------------|---|---|---|---|
|        | Self-Image and Identity |   |   |   |   |
|        | Online Relationships    |   |   |   |   |
|        | Online reputation       |   |   |   |   |
|        | Online Bullying         |   |   |   |   |
|        | Managing Online         |   |   |   |   |
|        | Information             |   |   |   |   |
|        | Health, Well-being and  |   |   |   |   |
|        | lifestyle               |   |   |   |   |
|        | Privacy and Security    |   |   |   |   |
|        | Copyright and Ownership |   |   |   |   |

#### **Digital Literacy coverage**

The themes of Online Relationships, Online Reputation and Online Bullying are also covered during our relationships units in PSHE.

Year 3 and 4 will revisit these topics in Summer 1 whereas Year 5 and 6 will cover these topics in Autumn 2.

As a subject lead the themes of Digital Literacy will be revisited in our subject assemblies and when we celebrate Safer Internet Day in February. Although, as a school, we believe that everyday should be Safer Internet Day. In a technologically advanced society, it is our duty to best prepare these children to become digitally literate and responsible citizens.

### Celebrating Computing:

Digital Leaders (Subject Ambassadors), Computing Club run periodically through the year, Safer Internet Day, Subject Leader Assemblies





| Units covered    Core skills: typing, communication, technology, control and data Online Safety: self-image, cyber bullying, stranger, reporting Digital Creativity: image, video, audio Coding: computational thinking    Early Years   Programming   Programming   Programming   Programming   Programming   Programming   Programming   Programming   Presentations (App)   Presentations (Data)   Presentations (Website)   Computer Networks   Computer Networks   Computer Networks   Presentations (Presentations (Presentati | LHA Computing Jour |                     |                         |                        |                         |                             |                   |                    |
|--|--------------------|---------------------|-------------------------|------------------------|-------------------------|-----------------------------|-------------------|--------------------|
| typing, communication, technology, control and data Online Safety: self-image, cyber bullying, stranger, reporting Digital Creativity: image, video, audio Coding: computational thinking  LHA Computing Journey (Progression in Knowledge and Skills)  Early Years Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 6 Technology 1 Can explain what a exies of instructions as a sequence of code untome of trigger a specific outcome of the form of instructions and variety of inputs and variety of i |                    | Early Years         | Year 1                  | Year 2                 | Year 3                  | Year 4                      | Year 5            | Year 6             |
| communication, technology, control and data Online Safety: self-image, cyber bullying, stranger, reporting Digital Creativity: image, video, audio Coding: computational thinking  LHA Computing Journey (Prograssion in Knowledge and Skills)  Early Years Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 6 Year 6 yeine of control with etchnology to trigger a specific outcome of the formal of the program in the following of the formal on th |                    |                     | E-Safety                | E-Safety               | E-Safety                | E-Safety                    | E-Safety          | E-Safety           |
| technology, control and data Online Safety: self-image, cyber bullying, stranger, reporting Digital Programming I can explain what a given command will do series of instructions as a sequence I can use a variety of inputs and outputs  I can use a variety of inputs and outputs Variety of inputs and varie |                    |                     |                         |                        |                         |                             |                   |                    |
| control and data Online Safety: self-image, cyber bullying, stranger, reporting Digital Creativity: image, video, audio Coding: computational thinking  LHA Computing Journey (Progression in Knowledge and Skills)  Early Years  Programming I can explore technology I can explore technology I can explain what a action with technology to trigger a specific outcome I can plan a simple program I can plan a simple outcome I can work with a technolog to trigger a specific outcome I can use logical I can use logical I can work with a variety of inputs and variety of |                    | •                   | Programming             | Programming            | Programming             | Programming                 | Programming       | Programming        |
| Online Safety: self-image, cyber bullying, stranger, reporting Digital Creativity: image, video, audio Coding: computational thinking  Early Years I can explore I can repeat an action with technology I can explore I can repeat an action with technology to trigger a specific outcome  Online Safety: Self-image, cyber bullying, stranger, reporting Digital Programming I can explore technology to trigger a specific outcome  Online Safety: Self-image, cyber bullying, stranger, reporting Programming Programming Programming Programming I can explain what ha given word I can explain what happens when I change the order of instructions outcome  Online Safety: Computer Networks AR/VR (3d Design) Programming Programming Programming Programming I can explain what happens when I change the order of instructions outcome  Online Safety Computer Networks AR/VR (3d Design) Networks Networks Networks Networks Networks Networks Networks Omputer Networks AR/VR (3d Design) Programming Programming Programming Programming Programming Programming I can create a series of instructions as a sequence I can use repetition in programs by decomposing them into smaller parts of sequence of code I can work with a variety of inputs and outputs I can use a variety of inputs and outputs I can use a variety of inputs and outputs I can use a variety of inputs and outputs I can use a variety of inputs and outputs I can use a variety of inputs and outputs I can use a variety of inputs and outputs I can use a variety of inputs and outputs I can use a variety of inputs and outputs I can use a variety of inputs and outputs I can use a variety of inputs and outputs I can use a variety of inputs and outputs I can use a variety of inputs and outputs I can use a variety of inputs and outputs I can use a variety of inputs and outputs I can use a variety of inputs and outputs I can use a variety of inputs and outputs I can use a variety of i |                    |                     |                         |                        |                         | _ , ,-                      |                   |                    |
| self-image, cyber bullying, stranger, reporting Digital Creativity: image, video, audio Coding: computational thinking  Early Years Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Nursery I can explore technology I can explain what a action with technology to trigger a specific outcome I can plan a simple program  I can plan a simple program  I can plan a simple program  I can lan a simple program  I can plan a simple program  I can use program  I can use program  I can use program sing a design  I can use program solv decomposing them into smaller parts  I can use a variety of inputs and outputs  I can use a variety of inputs and variety of input |                    |                     | Animation               | Digital Art            | Presentations (App)     | Presentations (Data)        |                   | Presentations      |
| bullying, stranger, reporting Digital Creativity: image, video, audio Coding: computational thinking I can explain what a etchnology I can explain with technology to trigger a specific outcome  bullying, stranger, reporting Digital Creativity: image, video, audio Coding: computational thinking I can explain what a action with technology to trigger a specific outcome  bullying, stranger, reporting Digital Programming Programming Programming Programming Programming Programming Programming Programming I can explain what happens when I change the order of instructions outcome  bullying, stranger, reporting Programming Programming Programming Programming I can explain what happens when I change the order of instructions outcome  creativity: image, video, audio Programming Programming Programming I can explain what happens when I change the order of instructions outcome  AR/VR (3d Design) AR/VR (3d Design) Programming Video Production Sound Programming Programming Programming Programming I can explain what happens when I change the order of instructions outcome  I can use logical I can use logical reasoning to   |                    | •                   | D 1 0 1 C 1             | D 1 0 1 C 1:           |                         |                             | (website)         | (Keynote)          |
| stranger, reporting Digital Creativity: Image, video, audio Coding: computational thinking  Early Years  Programming I can explore technology I can explain what a given command will do I can repeat an action with technology to trigger a specific outcome  I can plan a simple program I can use logical parts I can use logical reasoning to I can use lo |                    | •                   | Data & Information      | Data & Information     | Computer Networks       | Computer Networks           | C                 | Communitari        |
| reporting Digital Creativity: image, video, audio Coding: computational thinking  Early Years  Year 1  Year 2  Year 3  Year 4  Year 5  Year 5  Year 6  Nursery I can explore technology I can explore I can repeat an action with technology to trigger a specific outcome  Ten pogramming  Programming Programming Programming I can explain what happens when I change the order of instructions  Ten pogramming I can use repetition in programs Video Production Programming Programming Programming I can create a program using a design I can create a variety of inputs and Video Production Programming Programming I can create I can use repetition in programs Video Production Programming Programming I can create I can use repetition in programs Video Production Programming Programming I can create a program using a design I can use repetition in programs Video Production Programming Programming I can create a variety of inputs and Video Production Programming Programming Programming I can create a Variety of inputs and Video Production Programming Video Production Programming Programming I can create I can use repetition in programs Video Production Programming Video Production Programming Program I can use repetition in programs Video Production Programming Programming I can create a Variety of inputs and Video Production Video Production Video Production Programming I can create I can use repetition in programs Video Production Video Production Video Production Programming I can create I can use repetition I can use avariety of inputs and Video Production Video Production Video Production Video Production Video Production Video Prodraming Video Prodraming Program Vear 4  Year 5  Year 6  Year 5  Year 6  Programming I can create a Variety of inputs and Video Prodraming Video Prodrami |                    |                     | Croating Modia          | Dhotography            | AD/AD/2D Dosign)        | AD (VD (2d Dosign)          | •                 |                    |
| Digital Creativity:   image, video, audio   Coding:   computational thinking   Early Years   Year 1   Year 2   Year 3   Year 4   Year 5   Year 6   |                    | _                   | Creating Media          | Photography            | AR/VR (3D Design)       | AR/VR (30 Design)           | Networks          | Networks           |
| Creativity: image, video, audio Coding: computational thinking  LHA Computing Journey (Progression in Knowledge and Skills)  Early Years Year 1 Year 2 Year 3 Year 4 Year 5 Year 6  Nursery Programming I can explore technology I can explain what a given command will do so as a sequence I can use repetition as a sequence I can use repetition in programs by decomposing a design I can work with a variety of inputs and outcome Viger a specific outcome Viger as program I can use program I can use logical reasoning to I can use a variety of inputs and  |                    |                     | Programming             | Programming            | Programming             | Programming                 | Video Production  | Sound (Podcast)    |
| image, video, audio Coding: computational thinking  LHA Computing Journey (Progression in Knowledge and Skills)  Early Years Year 1 Year 2 Year 3 Year 4 Year 5 Year 6  Nursery I can explore technology in technology of trigger a specific outcome  I can program  I can plan a simple program  I can plan a simple program  I can work with a variety of inputs and outputs  I can use logical reasoning to commands in I can use a variety of specific outcome  I can use a variety of inputs and variety of inputs an |                    | _                   | Frogramming             | Frogramming            | Frogramming             | Frogramming                 | Video Froduction  | Souria (Fodeast)   |
| audio Coding: computational thinking  LHA Computing Journey (Progression in Knowledge and Skills)  Early Years  Year 1  Year 2  Year 3  Year 4  Year 5  Year 6  Nursery I can explore technology I can repeat an action with action with technology to trigger a specific outcome  Tean at thinking  Year 2  Year 3  Year 3  Year 4  Year 5  Year 6  Programming I can describe a series of instructions as a sequence design  I can create a program using a design I can work with a variety of inputs and outputs  I can use repetition in programs programs by decomposing them into smaller parts comma imple outputs  I can use logical of selection commands in I can ican use repetition in programs I can work with a variety of inputs and of selection commands in I can ican use a variety design I can use logical reasoning to   |                    | •                   |                         |                        |                         |                             | Programming       | Programming        |
| Coding: computational thinking  LHA Computing Journey (Progression in Knowledge and Skills)  Early Years Year 1 Year 2 Year 3 Year 4 Year 5 Year 6  Nursery   Programming   I can explore   technology   I can explain what a action with   action with technology to trigger a specific outcome   I can plan a simple   trigger a specific outcome   I can plan a simple   program   I can work with a variety of inputs and vari |                    | 0 , ,               |                         |                        |                         |                             | 11081011111118    | 1 Togramming       |
| computational thinking  LHA Computing Journey (Progression in Knowledge and Skills)  Early Years Year 1 Year 2 Year 3 Year 4 Year 5 Year 6  Nursery I can explore technology given command will do action with technology to trigger a specific outcome  To an plan a simple program  I can work with a variety of inputs and variety of in |                    |                     |                         |                        |                         |                             |                   |                    |
| thinking  LHA Computing Journey (Progression in Knowledge and Skills)  Early Years  Year 1  Programming I can explain what a technology I can repeat an action with technology to trigger a specific outcome  I can plan a simple program  I can work with a variety of inputs and outcome  I can use logical program to sequence  I can use logical program to sequence  I can use logical variety of inputs and variety of inputs |                    | •                   |                         |                        |                         |                             |                   |                    |
| Early Years Year 1 Year 2 Year 3 Year 4 Year 5 Year 6  Nursery   Programming   I can explore   I can explain what a given command will do   I can explain what a action with technology to trigger a specific outcome   I can plan a simple program   I can plan a simple program   I can work with a variety of inputs and of selection instructions   I can work with a variety of inputs and variety of i |                    | •                   |                         |                        |                         |                             |                   |                    |
| Nursery I can explore technology I can explain what a given command will do I can act out a given action with technology to trigger a specific outcome  Programming I can explain what a given I can act out a given I can plan a simple outcome  Programming I can describe a series of instructions as a sequence I can create a program using a design I can create a program using a design I can work with a variety of inputs and outputs I can use repetition in programs by decomposing selection them into smaller parts I can work with a variety of inputs and outputs I can use logical of selection commands in I can in  | LHA Computing Jour | rney (Progression i | n Knowledge and Skills) |                        |                         |                             |                   |                    |
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| technology given command will do series of instructions as a sequence I can repeat an action with technology to trigger a specific outcome program given command will do series of instructions as a sequence I can explain what happens when I change the order of instructions I can work with a variety of inputs and outputs  I can explain what happens when I change the order of instructions I can work with a variety of inputs and outputs  I can work with a variety of inputs and outputs  I can use logical of selection commands in I can icommands in I can icommands in I can icommands in I can icommand will do series of instructions as a sequence of easign of selection to trigger a specific outcome outputs  I can work with a variety of inputs and |                    | Nursery             | Programming             | Programming            | Programming             | Programming -               | Programming       | Programming        |
| I can repeat an action with technology to trigger a specific outcome  I can plan a simple program  I can act out a given word  I can explain what happens when I change the order of instructions  I can work with a variety of inputs and outputs  I can work with a variety of inputs and outputs  I can use logical reasoning to  I can work with a variety of inputs and outputs  I can use logical reasoning to  I can use logical reasoning to  I can use logical reasoning to   |                    | I can explore       | ·                       |                        | I can create a          | I can use <u>repetition</u> | I can create      | I can use a range  |
| I can repeat an action with technology to trigger a specific outcome  I can act out a given word  I can explain what happens when I change the order of instructions  I can explain what happens when I change the order of instructions  I can create a variety of inputs and variety of inpu |                    | technology          | given command will do   | series of instructions | program using a         | in programs                 |                   | of sequence,       |
| action with technology to trigger a specific outcome  I can explain what happens when I change the order of outcome  I can explain what happens when I change the order of instructions  I can create a sequence of code outputs  I can use logical of selection commands in I can use logical reasoning to  I can use logical reasoning to  I can use logical of selection commands in I can ice  |                    |                     |                         | as a sequence          | design                  |                             |                   | selection and      |
| technology to trigger a specific outcome  I can plan a simple change the order of instructions    Can use a variety of inputs and   Can use logical variety   Can us |                    | •                   |                         |                        |                         |                             | them into smaller | repetition         |
| trigger a specific outcome program change the order of instructions I can work with a variety of inputs and reasoning to I can use a variety of selection commands in I can ic   |                    |                     | word                    | •                      |                         | · ·                         | parts             | commands to        |
| outcome program instructions I can work with a variety of inputs and reasoning to of selection commands in I can id  |                    | • .                 |                         |                        | sequence of code        | outputs                     |                   | implement my       |
| variety of inputs and reasoning to commands in I can id  |                    |                     |                         | _                      |                         |                             | •                 | design             |
|  |                    | outcome             | program                 | instructions           |                         | _                           |                   |                    |
| Systematically detect   brograms   need to   | Computer           | Lang fallanı        | Data & Information      | l ann was la sient     | 1                       |                             |                   | I can identify the |
|  | 6 .                |                     |                         | _                      | outputs                 |                             | programs          | need for, and      |
| simple   reasoning to predict   and correct errors in   work v   |                    | •                   | i can label objects     |                        | Communition Notice when |                             | Loop uso          | work with,         |
|  |                    |                     | Lean count objects with |                        | •                       | hingiailis                  |                   | <u>variables</u>   |
| control a digital   I can count objects with   program   I can identify input   conditions in   device   the same properties   and output devices   Computer Networks  |                    | _                   |                         | hiogiaili              |                         | Computer Networks           | CONTRICTIS III    |                    |





|   |                    |                          | Data & Information   |                        | I can describe how             | repetition         | I can create                     |
|---|--------------------|--------------------------|----------------------|------------------------|--------------------------------|--------------------|----------------------------------|
|   | Reception          | I can answer questions   | I can count and      | I can explain how a    | networks physically            | commands           | procedures to                    |
|   | I can recognise    | about groups of objects  | compare objects      | computer network       | connect to other               |                    | hide complexity                  |
|   | the success or     |                          | using tally charts   | can be used to share   | networks                       | Computer           | in programs                      |
|   | failure of an      | Programming – quizzes    | 0 ,                  | information            |                                | Networks           | , 0                              |
|   | action             | I can choose a command   | I can use pictograms |                        | I can recognise how            | I can explain that | Networks                         |
|   |                    | for a given purpose      | to answer simple     | I can explore how      | networked devices              | computers can be   | I can explain the                |
|   | I recognise that   |                          | questions to select  | digital devices can be | make up the internet           | connected          | importance of                    |
| , | we control         | I can show that a series | objects by attribute | connected              |                                | together to form   | internet                         |
|   | computers          | of commands can be       | and make             |                        | I can evaluate the             | systems            | addresses                        |
|   |                    | joined together          | comparisons          | Programming –          | consequences of                |                    |                                  |
|   | I can input a      |                          |                      | Events & Actions       | unreliable content             | I can describe     | I can recognise                  |
|   | short sequence     | I can explain that each  | Programming          | I can explain how a    |                                | how search         | how data is                      |
|   | of instructions to | sprite has its own       |                      | sprite moves in an     | Programming -                  | engines select     | transferred                      |
|   | control a device   | instructions             | I can explain that a | existing project       | Intelino Indi                  | results            | across the                       |
|   |                    |                          | sequence of          |                        | I can use                      |                    | internet                         |
|   |                    |                          | commands has an      | I can adapt a          | decomposition to               | I can recognise    |                                  |
|   |                    |                          | outcome              | program to a new       | help solve complex             | why the order of   | I can explain how                |
|   |                    |                          |                      | context                | problems                       | results is         | sharing                          |
|   |                    |                          | I can create a       |                        |                                | important, and to  | information                      |
|   |                    |                          | program using a      | I can identify and fix | I can use abstraction          | whom               | online can help                  |
|   |                    |                          | given design         | bugs in a program      | to help solve                  |                    | people to work                   |
|   |                    |                          | 1                    |                        | complex problems               | Programming        | together                         |
|   |                    |                          | I can make           |                        | Land interest Constitution     | I can explain how  | D                                |
|   |                    |                          | improvements to my   |                        | I can identify suitable        | selection is used  | Programming                      |
|   |                    |                          | design               |                        | commands to use when solving a | in computer        | I can explain that selection can |
|   |                    |                          |                      |                        | problem.                       | programs           | control the flow                 |
|   |                    |                          |                      |                        | problem.                       | I can explain that | of a program                     |
|   |                    |                          |                      |                        |                                | a conditional      | or a program                     |
|   |                    |                          |                      |                        |                                | statement          | I can use a                      |
|   |                    |                          |                      |                        |                                | connects a         | conditional                      |
|   |                    |                          |                      |                        |                                | condition to an    | statement to                     |
|   |                    |                          |                      |                        |                                | outcome            | compare a                        |
|   |                    |                          |                      |                        |                                |                    | variable to a                    |
|   |                    |                          |                      |                        |                                | I can explain how  | value                            |
|   |                    |                          |                      |                        |                                | selection directs  |                                  |





|             |                 |  |                               |                       |                                | the flow of a program            | I can develop a<br>program to use<br>inputs and<br>outputs on a<br>controllable<br>device |
|-------------|-----------------|--|-------------------------------|-----------------------|--------------------------------|----------------------------------|---|
|             | Early Years     | Year 1   | Year 2                        | Year 3                | Year 4                         | Year 5                           | Year 6  |
|             | Nursery         | Animation  | Digital Art                   | Presentations         | Data Handling                  | Presentation                     | Presentation  |
|             | I can use       | I can explain what                               | I can describe the            | I can explain why we  | I can explain that             | I can identify the               | I can decide what   |
|             | technology to   | animation is                                     | main features of              | use prototypes        | data is collected to           | key features of a                | information   |
|             | explore and     |  | different art types           |                       | answer questions               | website                          | needs to be   |
|             | access digital  | I know that animations                           |                               | I can identify the    |                                |                                  | shared with an  |
|             | content         | require consistency and                          | I can use an app to           | features of effective | I can interpret data           | I can consider the               | audience on   |
|             |                 | being careful                                    | recreate pieces of            | apps                  | that has been                  | ownership and                    | screen  |
|             | Reception       |  | artwork                       |                       | collected                      | use of images                    |   |
|             | I can operate a | I can plan and create my                         |                               | I can design an app   |                                |                                  | I can record  |
|             | digital device  | own animation                                    | I can make choice             | that helps inform     | I can answer                   | I can create a                   | audio and   |
|             | with support to |  | about what tools I            | people                | questions using data.          | webpage and                      | overlay this on a   |
|             | fulfil a task   | Creating Media                                   | use to design my own          | 4                     |                                | embed media                      | slide   |
|             |                 | I can identify and find                          | artwork                       | AR/VR                 | AR/VR – 3D design              |                                  |   |
| Information | I can create    | keys on a keyboard                               |                               | I can explain the     | I can explain how              |                                  | I can add in  |
| Technology  | simple digital  |  | Photography                   | difference between    | AR/VR is used in the           | Video Creation                   | transitions and   |
| recimology  | content         | I can type a sentence                            | I can use a digital           | AR and VR             | world                          | I can capture                    | animations to   |
|             |                 | using a variety of keys                          | device to take                |                       |                                | video using a                    | make the  |
|             | I can choose    |  | photographs                   | I can explain that    | I can explain what             | range of                         | presentation  |
|             | media to convey | I can use the toolbar to                         |                               | AR/VR can change      | jobs may need or use           | techniques                       | effective   |
|             | information     | make changes                                     | I can describe what           | how we see the        | these skills                   | 1 :- +:£.                        | C   |
|             |                 | Lange de anno agreciata                          | makes a good                  | world                 | L ann anlant                   | I can identify<br>when I need to | Sound   |
|             |                 | I can choose appropriate tools to make a picture | photograph I know what photos | I can select, combine | I can select appropriate tools | reshoot or edit                  | I can explain   |
|             |                 | tools to make a picture                          | •                             | and place shapes in a | needed to meet a               |                                  | what a podcast is and why they are  |
|             |                 |  | can be changed                | workspace to create   | target audience                | my clips                         | popular   |
|             |                 |  |                               | a simple design       |                                | I can consider the               |   |
|             |                 |  |                               |                       |                                | impact of choices                | I can identify and  |
|             |                 |  |                               |                       |                                | made when                        | explain the key   |
|             |                 |  |                               |                       |                                |                                  | features  |





|                  |  |   |   |        |                              | making and sharing videos | I can plan,<br>produce and edit<br>my own podcast |
|------------------|--|---|---|--------|------------------------------|---------------------------|---|
|                  | Early Years  | Year 1  | Year 2  | Year 3 | Year 4                       | Year 5                    | Year 6  |
| Digital Literacy | Nursery I recognise a selection of digital devices I can use a mouse, touchscreen or appropriate access device to target and select options on screen  Reception I can use different digital devices I recognise that you can access content on a digital device I recognise the basic parts of a computer, e.g. mouse, screen, keyboard | I can explain why things one person finds funny or sad online may not always be seen in the same way by others  I can recognise that there may be people online who could make someone feel sad, embarrassed or upset  If something happens that makes me feel sad, worried, uncomfortable or frightened I can give examples of when and how to speak to an adult I can trust and how they can help  I can give examples of when I should ask permission to do something online and explain why this is important  I can use the internet | I can explain how information put online about someone can last for a long time I can explain how other people may look and act differently online and offline I can explain who I should ask before sharing things about myself or others online I know who to talk to if something has been put online without consent or if it is incorrect I can explain what bullying is, how people may bully others and how bullying can make someone feel |        | l<br>ing.service.gov.uk/medi |                           |   |
|                  |  | with adult support to   | I can explain why anyone who  |        |                              |                           |   |





| 10 | can select a     | communicate with         | experiences bullying   |  |
|----|------------------|--------------------------|------------------------|--|
|    | igital device to | people I know            | is not to blame        |  |
|    | ulfil a specific |                          |                        |  |
|    | ask              | I can describe what      | I can talk about how   |  |
|    |                  | information I should not | anyone experiencing    |  |
| 11 | know to tell an  | put online without       | bullying can get help  |  |
| ap | ppropriate adult | asking a trusted adult   |                        |  |
| if | I see            | first                    | I can explain simple   |  |
| sc | omething on      |                          | guidance for using     |  |
| th | ne computer      | I can describe how to    | technology in          |  |
| th | nat upsets me    | behave online in ways    | different              |  |
|    |                  | that do not upset others | environments (Home     |  |
|    |                  |                          | and school)            |  |
|    |                  | I know how to get help   |                        |  |
|    |                  | from a trusted adult if  | I can say how those    |  |
|    |                  | we see content that      | rules can help         |  |
|    |                  | makes us feel sad,       | anyone accessing       |  |
|    |                  | uncomfortable, worried   | online technologies    |  |
|    |                  | or frightened and can    |                        |  |
|    |                  | give examples            | I can use simple       |  |
|    |                  |                          | keywords in search     |  |
|    |                  | I can explain rules to   | engines                |  |
|    |                  | keep myself safe when    |                        |  |
|    |                  | using technology both in | I can demonstrate      |  |
|    |                  | and beyond the home      | how to navigate a      |  |
|    |                  |                          | simple webpage to      |  |
|    |                  | I can explain how        | get information I      |  |
|    |                  | passwords are used to    | need                   |  |
|    |                  | protect information,     |                        |  |
|    |                  | accounts and devices     | I can explain and give |  |
|    |                  |                          | examples of what is    |  |
|    |                  | I can recognise more     | meant by private and   |  |
|    |                  | detailed examples of     | keeping things         |  |
|    |                  | information that is      | private                |  |
|    |                  | personal to someone      | Lagra de seribe and    |  |
|    |                  |                          | I can describe and     |  |
|    |                  |                          | explain some rules     |  |







| I can explain why it is | for keeping personal |  |
|-------------------------|----------------------|--|
| important to always ask | information private  |  |
| a trusted adult before  |                      |  |
| sharing any personal    |                      |  |
| information online,     |                      |  |
| belonging to myself or  |                      |  |
| others.                 |                      |  |