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**Long Term Mapping**

**Computing KS2**

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|  | | **Cycle 1** | **Cycle 2** | **Cycle 3** | **Cycle 4** |
| **(2023-2024)** | **(2024-2025)** | **(2025-2026)** | **(2022-2023)** |
| **Autumn** | **1** | Exploring Online Safety | Exploring Online Safety | Exploring Online Safety | Exploring Online Safety |
|  |  |  |  |
| **2** | Common uses of ICT | ICT within our Community | Public and Private | Help |
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| **Spring** | **1** | Design Programs | Predict Behaviour | Learning to Control Devices | Debug |
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| **2** | Design Programs | Predict Behaviour | Learning to Control Devices | Debug |
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| **Summer** | **1** | Gathering Information | Gathering Information | Gathering Information | Gathering Information |
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| **2** | Presenting Information | Presenting Information | Presenting Information | Presenting Information |
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| **MEDIUM-TERM PLANNING** | | | | | | | | | | | | |
| ***Aspiration for Life*** | | | To develop their use of technology. | | ***Language for Life*** | | Develop and understand new vocabulary associated with ICT. | | ***Learning for Life*** | | To use their skills in a range of settings and put them to practical use. | |
| **CYCLE 1 (2019 – 2020)** | To equip learners with the knowledge and the skills to use computers to learn, enjoy and achieve, routing their knowledge in online safety and how to use the internet as a functional tool to assist them through life. | **Digital Literacy** | | | | **Computing Science** | | | | **Information Technology** | | | |
| **Autumn 1**  7 weeks | | **Autumn 2**  8 weeks | | **Spring 1**  6 weeks | | **Spring 2**  6 weeks | | **Summer 1**  5 weeks | | **Summer 2**  7 weeks | |
| **Exploring Online Safety** | | **Common uses of ICT** | | **Design Programs** | | | | **Gathering Information** | | **Presenting Information** | |
| To use technology safely, respectfully and responsibly. To recognise acceptable/unacceptable behaviour and to identify a range of ways to report concerns about content and contact.  To identify common uses of technology. To understand computer networks, how they provide multiple services and the opportunities they offer for communication. | | | | To create and debug simple programmes. To design, write and debug a range of programs that accomplish specific goals, using various forms of inputs and output. | | | | To use a variety of software effectively to collect, analyse, evaluate and present data and information. | | | |
| **SUGGESTED ACTIVITIES/ SOFTWARE** | | | | | | | | | | | |
| Construct a safe profile  SMART Thinking  Kudos  Playkids Talk  ThinkUKnow.co.uk  Picture books (Chicken Clicking, #Goldilocks etc.)  Using keyboard, printer, microphone etc.  Network spider web  Sending Emails | | | | Espresso Coding  Scratch  Bee-Bot / Bee-Bot App  Junk Maze  Human Crane  The7sisters.co.uk – Space/Santa Rescue, Fly Bee!  Following instructions to program  Raspberry Pi | | | | Google  Kiddle  KidRex  Wacky Safe  True or False  PowerPoint  Research a celebrity  Research a historical event (Topic)  Present to the teacher | | | |
| **VOCABULARY** | | | | | | | | | | | |
| Safety, Online, Report, Content, Cyber-bullying, Social Media, Chat, Personal, Information, Username, Password, Block, Profile, SPAM, Virus, Help, Trust.  Network, Hardware, Software, Input, Output, Machine, Network, Email, Communicate, Internet, Share | | | | Program, Design, Create, Debug, Code, Input, Output, Sequence, Selection, Repetition, Variable, Algorithm, Error | | | | Collect, Research, Search, Information, Data, Analyse, Present, Source, Reliable, Bias | | | |
| **IMPLEMENTATION** | | | | | | | | | | | |
| **Week 1:** Key vocab, intro and prior knowledge  **Week 2:** Personal Information  **Week 3:** Acceptable / Unacceptable behaviour  **Week 4:** Cyber-bullying  **Week 5-6:** Reporting concerns  **Week 7:** Assessment | | **Week 1:** Key vocab, intro and prior knowledge  **Week 2:** Technology in the wider world  **Week 3-4:** Input / Output Hardware  **Week 5-6:** Networks & the Internet  **Week 7**: Email / communication  **Week 8:** Assessment | | **Week 1:**  Key vocab, intro and prior knowledge  **Week 2-3:** Different Inputs & Outputs  **Week 4-5:** Following instructions to program a specific goal  **Week 6:** Debug an error | | **Week 1:** Recap  **Week 2:** Debug an error (continued)  **Week 3-5:** Design and create your own program  **Week 6:** Assessment | | **Week 1:** Key vocab, intro and prior knowledge  **Week 2-3:** Finding Information  **Week 4:** Reliable Information  **Week 5:** Assessment | | **Week 1:**  Key vocab, intro and prior knowledge  **Week 2:** Reliable / bias Information  **Week 3-5:** Creating a PowerPoint / Presentation  **Week 6:** Presenting  **Week 7:** Assessment | |
| **INTENT** |
| **MEDIUM-TERM PLANNING** | | | | | | | | | | | | |
| ***Aspiration for Life*** | | | To develop their use of technology. | | ***Language for Life*** | | Develop and understand new vocabulary associated with ICT. | | ***Learning for Life*** | | To use their skills in a range of settings and put them to practical use. | |
| **CYCLE 2 (2020 – 2021)** | To equip learners with the knowledge and the skills to use computers to learn, enjoy and achieve, routing their knowledge in online safety and how to use the internet as a functional tool to assist them through life. | **Digital Literacy** | | | | **Computing Science** | | | | **Information Technology** | | | |
| **Autumn 1**  7 weeks | | **Autumn 2**  7 weeks | | **Spring 1**  6 weeks | | **Spring 2**  5 weeks | | **Summer 1**  7 weeks | | **Summer 2**  6 weeks | |
| **Exploring Online Safety** | | **ICT within our Community** | | **Predict Behaviour** | | | | **Gathering Information** | | **Presenting Information** | |
| To use technology safely, respectfully and responsibly. To recognise acceptable/unacceptable behaviour and to identify a range of ways to report concerns about content and contact.  To identify common uses of technology. To understand computer networks, how they provide multiple services and the opportunities they offer for communication. | | | | To use logical reasoning to predict the behaviour of simple programs. To design, write and debug a range of programs that accomplish specific goals, using various forms of inputs and output. | | | | To use a variety of software effectively to collect, analyse, evaluate and present data and information. | | | |
| **SUGGESTED ACTIVITIES/ SOFTWARE** | | | | | | | | | | | |
| Construct a safe profile  SMART Thinking  Kudos  Playkids Talk  ThinkUKnow.co.uk  Picture books (Chicken Clicking, #Goldilocks etc.)  Using keyboard, printer, microphone etc.  Network spider web  Sending Emails | | | | Espresso Coding  Scratch  Bee-Bot / Bee-Bot App  Junk Maze  Human Crane  The7sisters.co.uk – Space/Santa Rescue, Fly Bee!  Following instructions to program  Match instructions to outcomes  Raspberry Pi | | | | Google  Kiddle  KidRex  Wacky Safe  True or False  PowerPoint  Research a country  Research a historical event (Topic)  Present to the class | | | |
| **VOCABULARY** | | | | | | | | | | | |
| Safety, Online, Report, Content, Cyber-bullying, Social Media, Chat, Personal, Information, Username, Password, Block, Profile, SPAM, Virus, Help, Trust.  Technology, Network, Hardware, Software, Input, Output, Machine, Network, Email, Communicate, Internet, Share | | | | Predict, Program, Design, Create, Debug, Code, Input, Output, Sequence, Selection, Repetition, Variable, Algorithm, Error | | | | Collect, Research, Search, Information, Data, Analyse, Present, Source, Reliable, Bias | | | |
| **IMPLEMENTATION** | | | | | | | | | | | |
| **Week 1:** Key vocab, intro and prior knowledge  **Week 2:** Personal Information  **Week 3:** Acceptable / Unacceptable behaviour  **Week 4:** Cyber-bullying  **Week 5-6:** Reporting concerns  **Week 7:** Assessment | | **Week 1:** Key vocab, intro and prior knowledge  **Week 2-3:** Technology in the wider world  **Week 4-6:** Input / Output Hardware – Using Technology  **Week 7:** Assessment | | **Week 1:**  Key vocab, intro and prior knowledge  **Week 2-3:** Different Inputs & Outputs  **Week 4-5:**  Following Instructions  **Week 6:**  Predict the Output | | **Week 1:** Recap  **Week 2:**  Predict the Output (continued)  **Week 3-5:** Design and create your own program  **Week 5:** Assessment | | **Week 1:** Key vocab, intro and prior knowledge  **Week 2-3:** Finding Information  **Week 4-5:** Reliable / bias Information  **Week 6:** Research  **Week 7:** Assessment | | **Week 1:**  Recap, key vocab, intro and prior knowledge  **Week 2-4:** Creating a PowerPoint / Presentation  **Week 5:** Presenting  **Week 6:** Assessment | |
| **INTENT** |
| **MEDIUM-TERM PLANNING** | | | | | | | | | | | | |
| ***Aspiration for Life*** | | | To develop their use of technology. | | ***Language for Life*** | | Develop and understand new vocabulary associated with ICT. | | ***Learning for Life*** | | To use their skills in a range of settings and put them to practical use. | |
| **CYCLE 3 (2021 – 2022)** | To equip learners with the knowledge and the skills to use computers to learn, enjoy and achieve, routing their knowledge in online safety and how to use the internet as a functional tool to assist them through life. | **Digital Literacy** | | | | **Computing Science** | | | | **Information Technology** | | | |
| **Autumn 1**  7 weeks | | **Autumn 2**  7 weeks | | **Spring 1**  7 weeks | | **Spring 2**  7 weeks | | **Summer 1**  7 weeks | | **Summer 2**  7 weeks | |
| **Exploring Online Safety** | | **Public and Private** | | **Learning to Control Devices** | | | | **Gathering Information** | | **Presenting Information** | |
| To use technology safely, respectfully and responsibly. To recognise acceptable/unacceptable behaviour and to identify a range of ways to report concerns about content and contact.  To keep personal information private and understand what information is safe to be made public. | | | | To create and debug simple programmes. To design, write and debug a range of programs, including controlling and simulating physical systems. | | | | To use a variety of software effectively to collect, analyse, evaluate and present data and information. | | | |
| **SUGGESTED ACTIVITIES/ SOFTWARE** | | | | | | | | | | | |
| Construct a safe profile  SMART Thinking  Creating passwords  Kudos  Playkids Talk  ThinkUKnow.co.uk  Picture books (Chicken Clicking, #Goldilocks etc.)  Can you keep a secret?  Private in the house  Research Celebrity private information (Address etc.) | | | | Espresso Coding  Scratch  Bee-Bot / Bee-Bot App  Junk Maze  Human Crane  Domino Effect (Missing pieces etc.)  Mouse Trap  The7sisters.co.uk – Space/Santa Rescue, Fly Bee!  Following instructions to program  Raspberry Pi | | | | Google  Kiddle  KidRex  Wacky Safe  True or False  PowerPoint  Research a celebrity  Research a historical event (Topic)  Present to an audience | | | |
| **VOCABULARY** | | | | | | | | | | | |
| Safety, Online, Report, Content, Cyber-bullying, Social Media, Chat, Personal, Information, Username, Password, Block, Profile, SPAM, Virus, Help, Trust.  Public, Private, Safe, Secret, Security, Personal, Share, Information, Fraud. | | | | Control, Program, Design, Create, Debug, Code, Input, Output, Sequence, Selection, Repetition, Variable, Algorithm, Error | | | | Collect, Research, Search, Information, Data, Analyse, Present, Source, Reliable, Bias | | | |
| **IMPLEMENTATION** | | | | | | | | | | | |
| **Week 1:** Key vocab, intro and prior knowledge  **Week 2:** Personal Information  **Week 3:** Acceptable / Unacceptable behaviour  **Week 4:** Cyber-bullying  **Week 5-6:** Reporting concerns  **Week 7:** Assessment | | **Week 1:** Key vocab, intro and prior knowledge  **Week 2-3:** Public and Private  **Week 4:** Privacy at Home  **Week 5-6:** Keeping Information Safe  **Week 7**: Assessment | | **Week 1:**  Key vocab, intro and prior knowledge  **Week 2-4:** Exploring Variety of Devices  **Week 5-7:** Following Instructions to use devices | | **Week 1:** Recap  **Week 2-3:** Debug instructions  **Week 4-5:** Write your own instructions  **Week 6:** Follow instructions written by pupils  **Week 7:** Assessment | | **Week 1:** Key vocab, intro and prior knowledge  **Week 2-3:** Finding Information  **Week 4:** Reliable Information  **Week 5:** Assessment | | **Week 1:**  Key vocab, intro and prior knowledge  **Week 2:** Reliable / bias Information  **Week 3-5:** Creating a PowerPoint / Presentation  **Week 6:** Presenting  **Week 7:** Assessment | |
| **INTENT** |
| **MEDIUM-TERM PLANNING** | | | | | | | | | | | | |
| ***Aspiration for Life*** | | | To develop their use of technology. | | ***Language for Life*** | | Develop and understand new vocabulary associated with ICT. | | ***Learning for Life*** | | To use their skills in a range of settings and put them to practical use. | |
| **CYCLE 4 (2022 – 2023)** | To equip learners with the knowledge and the skills to use computers to learn, enjoy and achieve, routing their knowledge in online safety and how to use the internet as a functional tool to assist them through life. | **Digital Literacy** | | | | **Computing Science** | | | | **Information Technology** | | | |
| **Autumn 1**  7 weeks | | **Autumn 2**  7 weeks | | **Spring 1**  7 weeks | | **Spring 2**  7 weeks | | **Summer 1**  7 weeks | | **Summer 2**  7 weeks | |
| **Exploring Online Safety** | | **Help** | | **Debug** | | | | **Gathering Information** | | **Presenting Information** | |
| To use technology safely, respectfully and responsibly. To recognise acceptable/unacceptable behaviour and to identify a range of ways to report concerns about content and contact. | | | | To create and debug simple programmes. To design, write and debug a range of programs that accomplish specific goals, using various forms of inputs and output. | | | | To use a variety of software effectively to collect, analyse, evaluate and present data and information. | | | |
| **SUGGESTED ACTIVITIES/ SOFTWARE** | | | | | | | | | | | |
| Construct a safe profile  SMART Thinking  Kudos  Playkids Talk  ThinkUKnow.co.uk  Picture books (Chicken Clicking, #Goldilocks etc.)  ProjectEvolve  SaferInternet.org.uk | | | | Espresso Coding  Scratch  Bee-Bot / Bee-Bot App  Junk Maze  Human Crane  The7sisters.co.uk – Space/Santa Rescue, Fly Bee!  Following instructions to program  Correcting Instructions  Raspberry Pi | | | | Google  Kiddle  KidRex  Wacky Safe  True or False  PowerPoint  Research a celebrity  Research a historical event (Topic)  Present to an audience | | | |
| **VOCABULARY** | | | | | | | | | | | |
| Safety, Online, Report, Content, Cyber-bullying, Social Media, Chat, Personal, Information, Username, Password, Block, Profile, SPAM, Virus, Help, Trust. | | | | Predict, Program, Design, Create, Debug, Fix, Correct, Solve, Code, Input, Output, Sequence, Selection, Repetition, Variable, Algorithm, Error | | | | Collect, Research, Search, Information, Data, Analyse, Present, Source, Reliable, Bias | | | |
| **IMPLEMENTATION** | | | | | | | | | | | |
| **Week 1:** Key vocab, intro and prior knowledge  **Week 2:** Personal Information  **Week 3:** Acceptable / Unacceptable behaviour  **Week 4:** Cyber-bullying  **Week 5-6:** Reporting concerns  **Week 7:** Assessment | | **Week 1:** Key vocab, intro and prior knowledge  **Week 2:** Acceptable / Unacceptable behaviour  **Week 3**: Identifying unacceptable behaviour  **Week 4:** Trusted adults  **Week5-6:** Asking for help / reporting concerns.  **Week 7:** Assessment | | **Week 1:**  Key vocab, intro and prior knowledge  **Week 2-3:** Following instructions / algorithms  **Week 4-5:**  Finding errors in instructions  **Week 6-7:**  Fixing errors in instructions | | **Week 1:** Recap  **Week 2-4:** Debug – Find and fix errors in instructions  **Week 5-6:** Write and test own instructions. Debug own and others’.  **Week 7:** Assessment | | **Week 1:** Key vocab, intro and prior knowledge  **Week 2-3:** Finding Information  **Week 4-5:** Reliable / bias Information  **Week 6:** Research  **Week 7:** Assessment | | **Week 1:**  Recap, key vocab, intro and prior knowledge  **Week 2-4:** Creating a PowerPoint / Presentation  **Week 5:** Presenting  **Week 6:** Assessment | |
| **INTENT** |