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**Long Term Mapping**

 **Computing KS1**

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|  | **Cycle 1** | **Cycle 2** |
| **(2021-22)** | **(2022-2023)** |
| **Autumn**  | **1** | Experiencing Online Safety | Experiencing Online Safety |
| *Online safety*  | *Online safety*  |
| **2** | ICT within our Community  | Common Uses of ICT |
| *Online Safety*  | *Online safety*  |
| **Spring** | **1** | Algorithms | Predict Behaviour |
| *Computer Science*  | *Computer Science*  |
| **2** | Algorithms | Algorithms |
| *Computer Science* | *Computer Science* |
| **Summer**  | **1** | Electronics for a Purpose | Electronics for a Purpose |
| *IT* | *Digital Literacy*  |
| **2** | Electronics for a Purpose | Electronics for a Purpose |
| *Digital Literacy*  | *IT* |

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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** | 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. | **Online Safety** | **Computer Science** | **Information Technology/ Digital Literacy** |
| **Autumn 1**7 weeks | **Autumn 2**8 weeks | **Spring 1**6 weeks | **Spring 2**6 weeks | **Summer 1**5 weeks | **Summer 2**7 weeks |
| **Experiencing Online Safety** | **ICT within our Community** | **Algorithms** | **Electronics for a Purpose** |
| To experience using technology safely and respectfully, keeping personal information private. To understand where to go and who to ask for help when they have concerns with ICT content or contact. To recognise common uses of information technology beyond school. | To understand what algorithms are and how they are implemented as programs by following precise instructions. To create and debug simple programs and use reasoning to predict the behaviour of programs. | To use technology purposefully to create, organise, store, manipulate and retrieve digital content.  |
| **SUGGESTED ACTIVITIES/ SOFTWARE** |
| SMART Thinking and role playsKudos, Playkids TalkThinkUKnow.co.ukTechnology at homeUsing television, washing machine, self-scanner etc.Help Kids Learn stories involving technologyCause and effect on HKLSmartie the Penguin story.Picture books (Chicken Clicking, #Goldilocks etc.) | Examples of instructions (brush teeth, recipes)CIP instructionsBee-Bot / Bee-Bot AppJunk MazeHuman Crane The7sisters.co.uk – Space/Santa Rescue, Fly Bee!Following instructions to program | HKL createPaintTaking photos (Camera and iPad)Selfies, Landscapes, objectsPhoto filtersPhoto editorSaving filesCreate a CIM on HKLCIP message home |
| **VOCABULARY** |
| Safety, Online, Help, Report, Content, Chat, Personal, Private, Information, Contact, BlockInformation Technology (IT), Machines, Lights, Electronics, iPad, Tablet, Computer, Television, Car, Community,  | Instructions, Program, Design, Input, Output, Algorithm, Error  | Electronics, create, save, digital, picture, file, upload. |
| **IMPLEMENTATION** |
| **Week 1:** Key vocab, intro and prior knowledge**Week 2-3:** Personal and Private**Week 4-6:** Reporting: Ask for help**Week 7:** Assessment | **Week 1:** Key vocab, intro and prior knowledge**Week 2:** Technology in school**Week 3-4:** Technology at home**Week 5-7:** Technology in the community**Week 8:** Assessment | **Week 1:**  Key vocab, intro and prior knowledge**Week 2-4:** Following Instructions**Week 5-6:** Sequence Instructions | **Week 1:** Recap**Week 2:** Sequence Instructions cont.**Week 3:** Errors in instructions**Week 4-5:** Giving Instructions**Week 6:** Assessment | **Week 1:** Key vocab, intro and prior knowledge**Week 2-3:** Electronics we use daily**Week 4-5:** Taking pictures | **Week 1:**  Recap**Week 2-3:** Saving and moving files/pictures**Week 4-5:** Editing pictures/files**Week 6:** Creating**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** | 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. | **Online Safety**  | **Computer Science** | **Information Technology/Digital Literacy** |
| **Autumn 1**7 weeks | **Autumn 2**7 weeks | **Spring 1**6 weeks | **Spring 2**5 weeks | **Summer 1**7 weeks | **Summer 2**6 weeks |
| **Experiencing Online Safety** | **Common uses of ICT** | **Predict Behaviour** | **Algorithms** | **Electronics for a Purpose** |
| To experience using technology safely and respectfully, keeping personal information private. To understand where to go and who to ask for help when they have concerns with ICT content or contact. To recognise common uses of information technology beyond school. | To understand what algorithms are and how they are implemented as programs by following precise instructions. To create and debug simple programs and use reasoning to predict the behaviour of programs. | To use technology purposefully to create, organise, store, manipulate and retrieve digital content.  |
| **SUGGESTED ACTIVITIES/ SOFTWARE** |
| SMART Thinking and role playsKudosPlaykids TalkThinkUKnow.co.ukTechnology at home & in schoolUsing television, washing machine, self-scanner etc.Help Kids Learn stories involving technologyCause and effect on HKLTechnology in the world | Examples of instructions (brush teeth, recipes)CIP instructionsMatch instructions to end resultBee-Bot / Bee-Bot AppJunk MazeHuman Crane The7sisters.co.uk – Space/Santa Rescue, Fly Bee!Following instructions to programSequencing instructions | HKL createPaintTaking photos (Camera and iPad)Selfies, Landscapes, objectsPhoto filtersPhoto editorSaving filesCreate a CIM on HKLCIP message home |
| **VOCABULARY** |
| Safety, Online, Help, Report, Content, Chat, Personal, Private, Information, Contact, BlockInformation Technology (IT), Machines, Lights, Electronics, iPad, Tablet, Computer, Television, Car, Community, Traffic Lights, Electric Toothbrush etc. | Instructions, Program, Design, Input, Output, Algorithm, Error, Predict, Guess, Order, Sequence, Input, Output  | Electronics, create, save, digital, picture, file, upload. |
| **IMPLEMENTATION** |
| **Week 1:** Key vocab, intro and prior knowledge**Week 2-3:** Personal and Private**Week 4-6:** Reporting: Ask for help**Week 7:** Assessment | **Week 1:** Key vocab, intro and prior knowledge**Week 2:** Technology in school**Week 3-4:** Technology at home**Week 5-6:** Technology in the community**Week 7:** Assessment | **Week 1:**  Key vocab, intro and prior knowledge**Week 2-3:** Experiment with cause and effect / input and output**Week 4-5:** Guess the result of sets of instuctions**Week6:** Assessment | **Week 1:**  Key vocab, intro and prior knowledge**Week 2:** Following Instructions.**Week 3:** Errors in instructions**Week 4: Writing** Instructions**Week 5:** Assessment | **Week 1:** Key vocab, intro and prior knowledge**Week 2-3:** Electronics we use daily**Week 4-5:** Taking pictures**Week 6-7:**Saving and moving files/pictures | **Week 1:**  Recap**Week 2-3:** Editing pictures/files**Week 4-6:** Creating**Week 6:** Assessment |
| **INTENT** |