

**COMPUTER SCIENCE**

Prior learning to reactivate:

- Know that an algorithm is a set of instructions to achieve a desired outcome.
- Create a more complex algorithm to move a floor robot/ computer programmed app to a set success point and record it
- Debug a simple algorithm to correct an error that has been designed by the teacher

Key learning:

- Be able to explain simple algorithms and how they work using logical reasoning
- Design, write and debug a program to accomplish a specific goal (use a program to draw shapes using a specific set of inputs)
- Create algorithms that can include choices (if) and repetition (loops)
- Algorithms must be tested and changed if don't work
- Understand than computers in school and connected together
- Know that computer are networked so that information can be shared easily between them
- Know the differences between the internet and World Wide Web (www)

Key vocabulary

algorithm	a set of instructions designed to perform a specific task
debug	remove an error
network	a set of computers connected together for the purpose of sharing resources.
search engine	a software system that is designed to carry out a web search
URL address	the address or location of something on the internet
multimedia	using more than one means of communication



Cardlake Primary School
Computing Knowledge Organiser

Year 3



DIGITAL LITERACY

Prior learning to reactivate:

- Know that not everyone or everything online can be trusted
- Understand the SMART online safety guidelines
- Discuss and identify personal information that should be kept private
- ICT can be used to share information

Key learning:

- Identify what is meant by a URL address and search for it.
- Basic navigation of an internet search engine (back, forward, home)
- Understand that the words (criteria) you use to search doesn't always give you the answers you require
- Understand that not all information found on the internet is true and can be used to prove the answers to questions
- That what we search for can sometimes show us information, pictures that are not suitable for children.
- What to do when information is not suitable and how to avoid it.

INFORMATION TECHNOLOGY

Prior learning to reactivate:

- Use a range of programs to produce work (2simple / word / Doodle Buddy)
- Can save, open, edit and print work produced
- navigate basic editing options within programs

Key learning:

- Select and use a popular and common multimedia presentation to present information gathered from multiple sources (Microsoft Powerpoint, websites, books, photos)
- Use and set a template for your work (slide layout)
- Choose appropriate font, colour and size to represent what information you are showing
- Insert pictures into your presentation
- Develop a more efficient typing (two handed)
- Use a commonly used music program to generate a short piece of music linked to a picture or poem (garage band)
- Import music and sounds of their own creation
- Use image capturing (ipad) to capture a series of images to tell and story (animation)
- Turn still images in a short movie sequence
- Add simple text and titles to you images
- Amend work by editing and deleting unwanted pictures.