YEAR 4 Computing – Knowledge Organiser Spring 1

Focus: Coding and Algorithms

Overview:
In Computing, we will be exploring simple algorithms. You will be coding simple sequences and analysing software. You will use Garage Band to make music and input instructions into a Jimu Robot. Together they will perform.
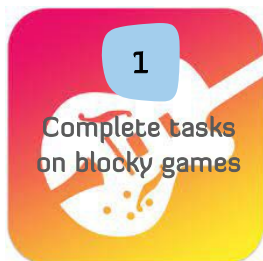
Key Vocabulary:
- Algorithm
- Coding
- Program
- Sequence
- Debugging
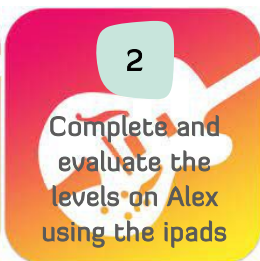- Performance
- Reasoning
- Evaluation

Key Resources:
- Garage Band
- Jimu
- Lightbot

What to expect in lessons:
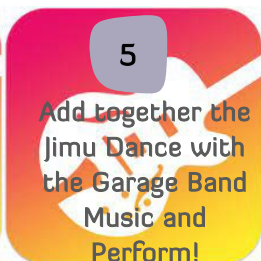
1. Complete tasks on blocky games
2. Complete and evaluate the levels on Alex using the ipads
3. Use and explore Garage Band to make musical compositions
4. Make a Jimu Robot Dance!
5. Add together the Jimu Dance with the Garage Band Music and Perform!

Key Skills:
I Can…
- Create Codes ☐
- Create Music ☐
- Explore robot functions ☐
- Perform ☐
- Evaluate Codings ☐

Scratch — Knowledge of coding and control using Scratch

Skill of finding images, resizing and adding to an animation

Skill of adding animations to a given task

Skill of adding codes to alter an animation.

Time To Present
A Jimu Dance

Software For Extra Practice:
Use Lightbot and Alex

A.L.E.X.   Lightbot