

Transition Year Workshops 2015/16 Maths, Sound & Music



- Trigonometry
- Sine Function
- Binary Notation
- Scales
- Logs

- MIDI
- Producing Sound Tracks
- Live Performance
- Music Composition
- Mixing & Arranging
- Sampling



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DISCOVERY

CREATIVITY

ADVENTURE

Concepts	Theory & Exploration	Application	Tools
Frequency, Amplitude & the Sine Function	Exploring nature of Sound using iPads & Speakers Exploring how microphones & speakers work (electro magnetic induction) Exploring mathematical representation of sound using Sine Function	Using Samplers and Controllers Using FX & Devices Arranging and Performing tracks	iPads & Mac Books
Binary Notation	Exploring what Binary notation is and how it an essential part of MIDI & music creation.	Using MIDI with Ableton music creation software	iPads & Mac Books
Scales & Logs	Exploring scales and logs through the typical 12 note western scale using virtual piano keyboards	Applying different scaling methods to the frequency spectrum to create different cultural scales such as Western v Asian scales.	iPads & Garage Band
Patterns & Rhythms	Exploring different patterns with associated frequency & amplitude. Exploring how patterns such as Fibonacci sequence and time signatures can be applied when creating music.	Using patterns and rhythms to create music sound tracks	Wave generator, drums & sand.

Please note that we can customise programmes to suit the needs and requirements of each school and class.



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