

Digital Technologies Content Descriptor

ACTDIP018: Design a user interface for a digital system

NSW Syllabus Outcomes

ST3-SWT

Plans & implements a design process, selecting a range of tools, equipment, materials & techniques to produce solutions that address the design criteria & identified constraints

Title and Introduction

'Makey Makey Guitar Hero.'

Metalanguage

Interface, ~~input output~~ input output components.

Activity

Create a guitar or instrument of choice with at least 6 distinct sounds. (chords or notes)
Using Scratch + makey makey.

Assessment and Reporting

were they able to make all 6 notes work?

Resources

Makey Makey Kit
Cardboard.
Foil

Scratch
Internet
Desktop Computers

Collaborative Lesson Planning Activity - Group #4



* Introduce a kid's musical instrument that plays noise, discuss what drives the sounds.

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* Review the MakeyMakey interface

* Review electrical circuits & earthing.

* Define the task that they are to undertake.

* In pairs, brainstorm & label a diagram in Science Tech books.

Have a variety of materials - foil, cardboard, old fruit, play dough.

Design & guitar

Open scratch.

Use programming

steps (Test as they progress)

- Play a note

- Add other notes

Extension activity - try to create chords.