

LESSON PLAN

Interactive Poster with Makey Makey

Year 4 – Year 8

Key Competencies:

Thinking
Participating and contributing
Using language, symbols and text

Curriculum Connection:

Technology

Computational Thinking: Progress
Outcome 1 and 2

Social Science

(Level 2)

Understand how people make choices to meet their needs and wants.

Understand how people make significant contributions to New Zealand's Society.

(Level 3)

Understand how people remember and record the past in different ways.



Makey Makey Classic Kit
2530082

Aim:

Students will learn about Jean Batten's record flight around the world – discovering where she ran into problems and how she solved them along the way. They'll recreate the flight path on a map and pin-point highlights using Makey Makey and Scratch software to code an interactive poster.



Lesson Outline

Materials:

World Map
Makey Makey Kit
Copper Tape
Split Pins
Scissors
Scratch Software on Device

Step 1:

Trace the path of Jean Batten's flight on your map, drawing dots where she ran into trouble. You can find detailed information on her flight here: <https://www.nzgeo.com/stories/jean-batten/>

Step 2:

Pick a spot to highlight. In our [demo video](#), we picked Iraq, where Jean Batten encountered her first sandstorm and landed in Baghdad. Write down a short snippet about what happened to Jean Batten at this spot – you will use this for recording later.

Step 3:

Cut a small slit in the map over your chosen location and poke a split pin through the top, flipping out the spokes at the back of the paper.

Step 4:

Stick your copper tape: Start under one of the pin spokes (ensure it will connect to the tape when the paper is laid flat).

Run the tape all the way to the edge of your map and wrap it around to the front.

Step 5:

Connect an alligator clip from the Makey Makey kit to the copper tape at the edge of the map.

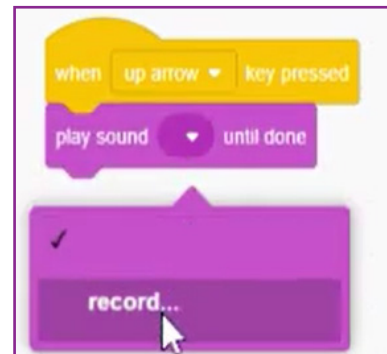
Connect the other end to the UP arrow on the Makey Makey hub.

Step 6:

Now it's time to code! Open up Scratch on your device and connect your Makey Makey up with the USB wire from the kit.

Code:

- i. From the Events menu, select the instruction "when [space] key is used" and pop it into the coding window. Click on the dropdown menu on the instruction and switch it from [space] to [up arrow].
- ii. From the Sound menu, select the instruction "play sound [] until done" and connect it under the first instruction.
- iii. Select the dropdown menu and click "record":



- iv. Record your snippet from Step 2. Save, and change "play sound [] until done" to "play sound [your recording] until done" by using the drop down menu.
- v. Finish by running your program.

Step 7:

Test your program! Touch the earthing point on your Makey Makey hub with one finger and then press the split pin on your highlighted location. You should hear your recording play back.

Step 8:

Repeat steps 1-7 with as many locations as you want to highlight on your map, and have fun!

This lesson could be adjusted to any amount of projects, think of how your stents could use this coding on a different type of content.