

SCHOOL FOR CIVIC ACTION

# PITCH TOOLKIT

SPRING 2022

PITCH WELCOMES A SOUND,  
TO BEAR WITNESS TO SOUNDSCAPES,  
FOR COMMONS FUTURES.

# PITCH

The third PITCH workshop series will focus on the physical construction of a listening space to host the Reveil performance at Sound Camp. This year the workshop series will focus on exploring the form and material qualities of PITCH as a built space.

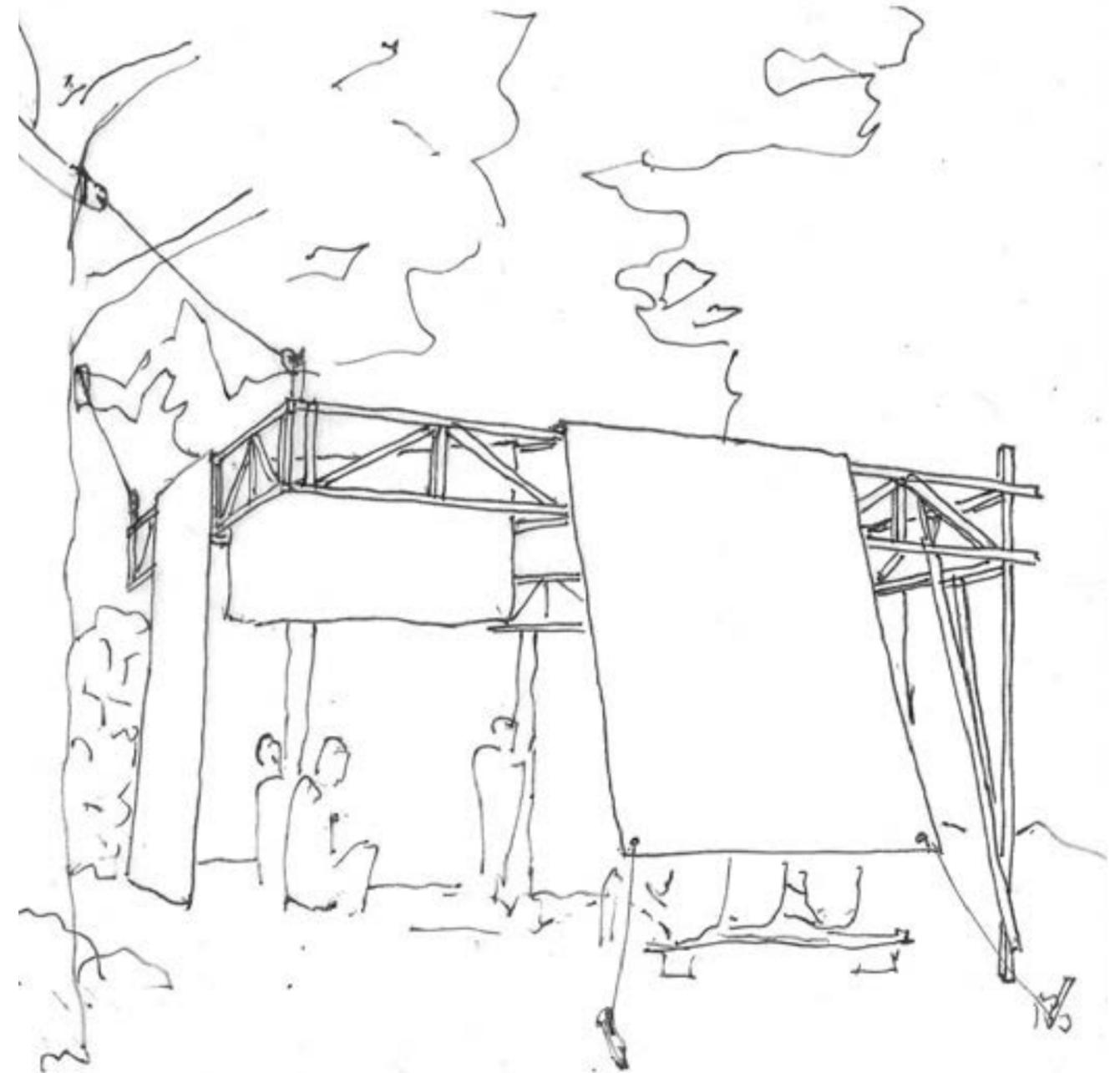
The building process should be a collaborative moment to engage groups before listening begins. Ideas of circularity are built into the design, using fixings which do not impact on the material, to encourage materials to be reused once PITCH is disassembled.

PITCH should be reactive to its surroundings.

## THE PROCESS NETWORKED BUILDING WORKSHOPS

Pitch will be constructed across two sites consecutively. This will initiate a process of iterative design as Pitch is deconstructed and rebuilt taking on new local characteristics defined by the logic of a new site. The two sites will learn from each other by sharing and updating in an online peer to peer learning space.

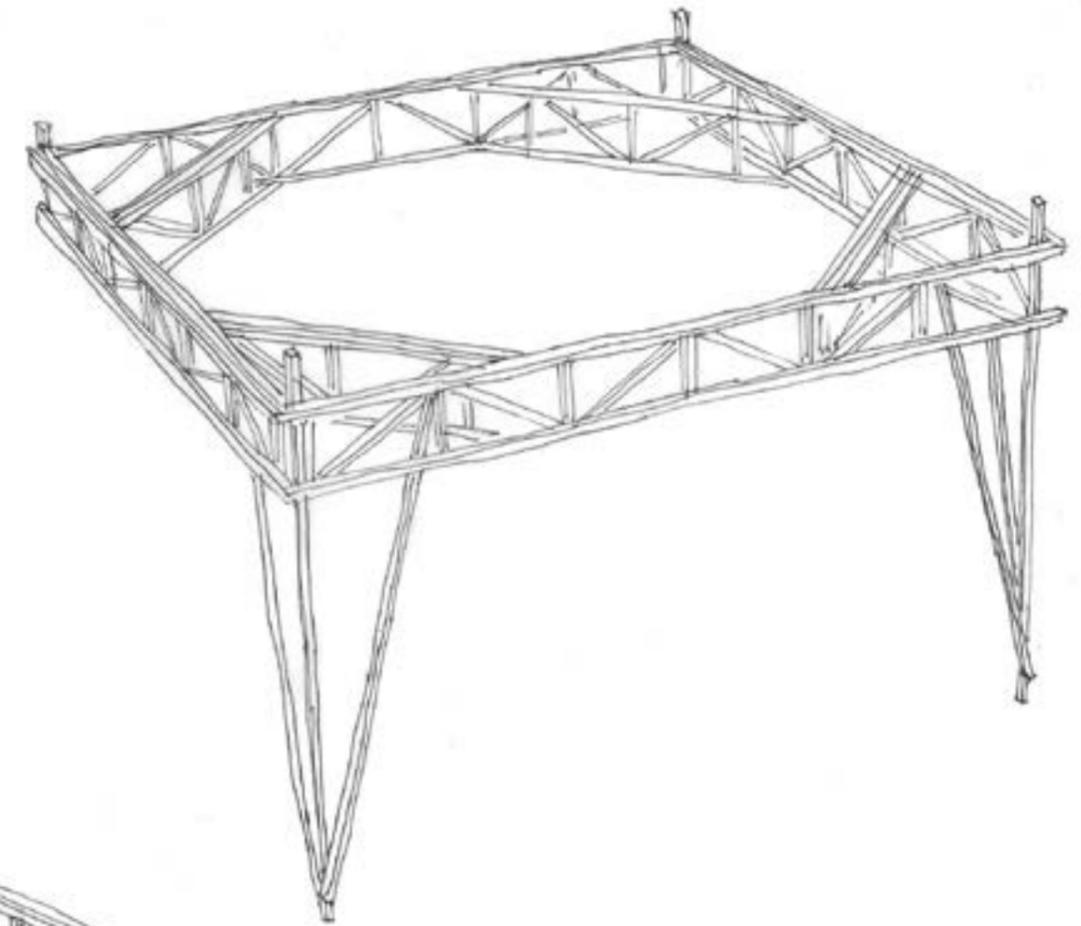
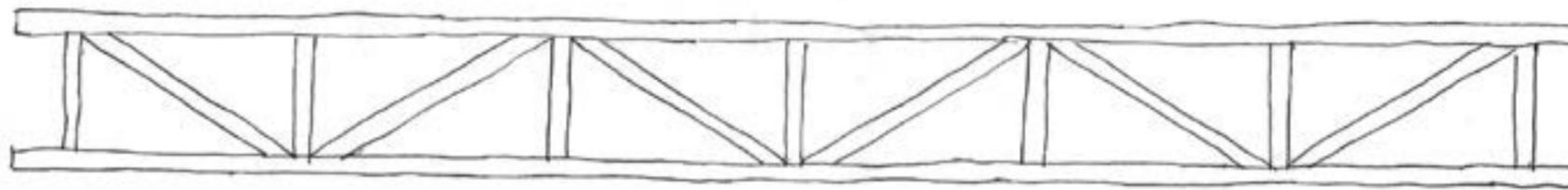
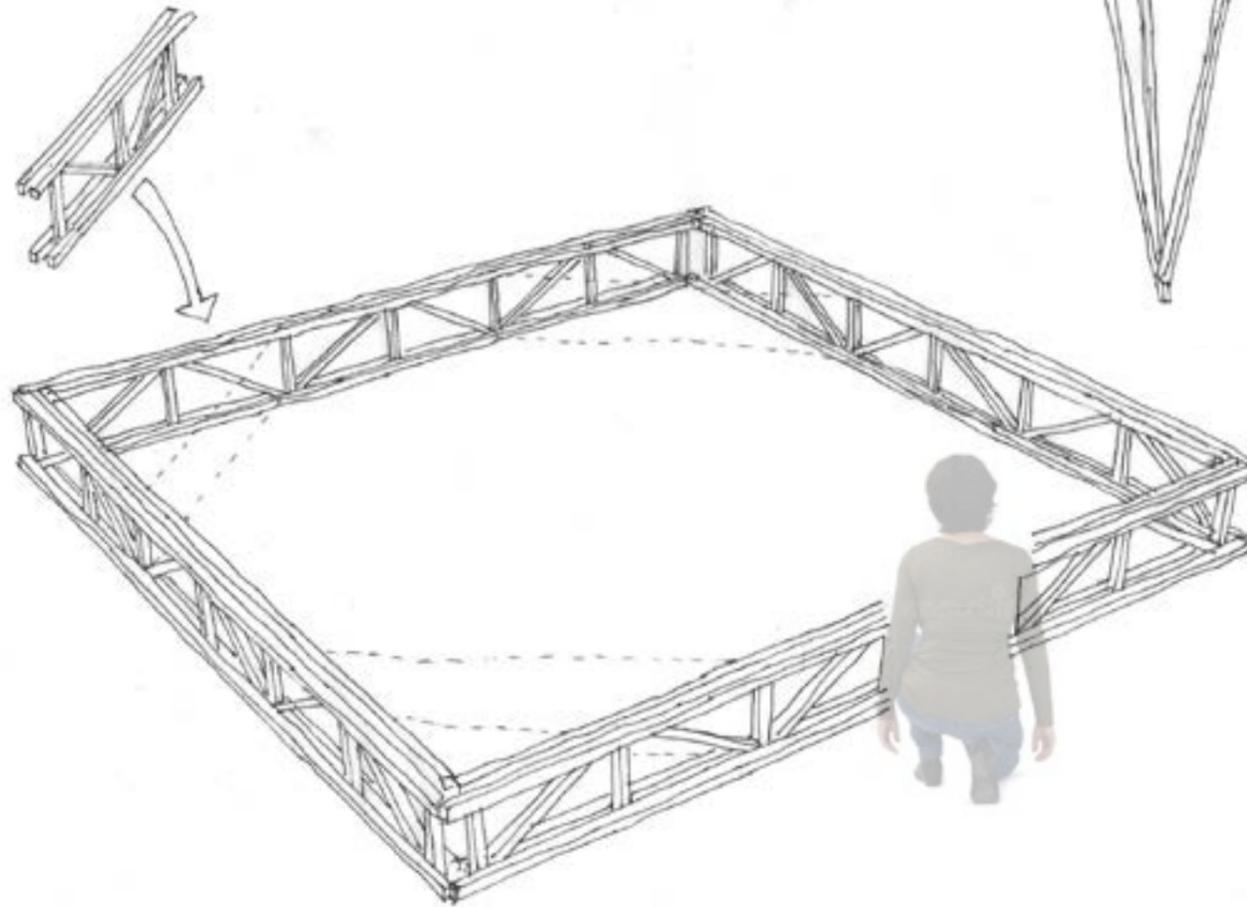
We will explore how we can share our learning between these two sites, developing a strategy for communicating the construction. This strategy for communicating the construction will support us to build networks of listening spaces at future sound camp events.



# WORKSHOP 1 : THE TRUSS FRAMES

We are interested in how Pitch could have a ridged roof structure which lifts above the site to create shelter below, while remaining opening to the landscape of the ecology park. As part of this workshop, we will explore how we can construct this frame using a simple truss system. Making structural models and 1:1 prototypes, we will test different designs for the roof. We will explore how the trusses and bracing within this frame create different geometries and patterns.

The trusses are constructed using simple lap joints and can be constructed on the floor before being secured into place. As self-supporting elements they can be moved between different sites. As part of the workshop we will test how the design can be quickly constructed using easily available materials, developing a set of instructions for others to construct their own roofs. As part of temporary Sound Camp festival, we will explore how the detailed connections of Pitches roof can be designed to be de-constructed, re-using the materials in other projects.



## EQUIPMENT LIST

- 80x 2by4 Timber Batons
- Nails and Carriage Bolts
- Rope
- Carabiner
- Pegs
- Drill
- Saw

## WORKSHOP 2: THE SKIN

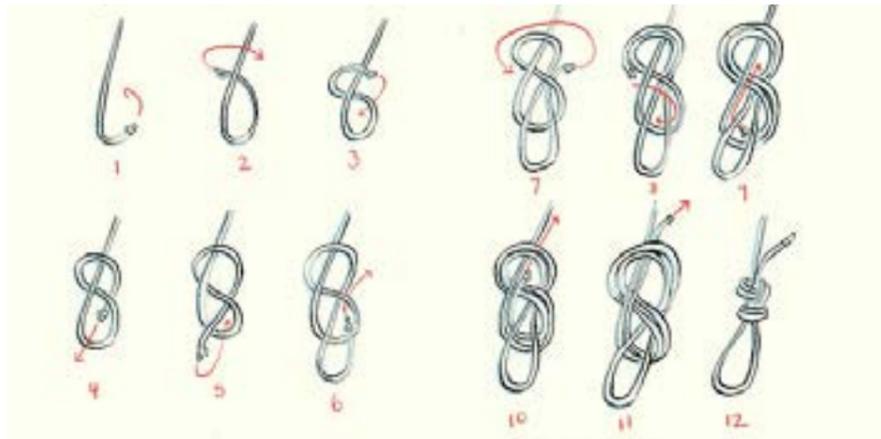
The workshops will consider what the outer skin of pitch is made of. During the workshops we will test different methods of water proofing fabric to create a dry space protected from the weather of the ecology park. Speakers hanging between the frames broadcast Reveil to the audience gathered within Pitch, protecting them from the weather.

These fabric panels can be lifted to connect Pitch to the wider landscape or secured to the edge of the frames to enclose the space. We are interested in exploring how Pitch interacts with the landscape, considering the sounds created as a result of the materiality and tension of the waterproof panels. We will explore the acoustic properties of different fabrics, to develop a skin which would allow visitors to focus on the sounds of the ecology park and the pitch broadcast. As part of the workshop, we will develop a design for this out skin, creating a graphic design for the structure, informed by the context of the park and the ambitions of the sound camp project. Using the plants and minerals we can find on the site, we will produce this design using natural diy techniques.



### EQUIPMENT LIST

- 8x Waterproof fabric
- Ropes
- Carabiners
- Pulley Carabiners
- Pegs

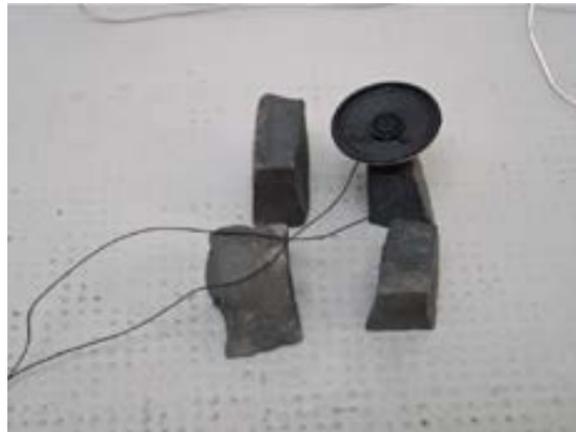
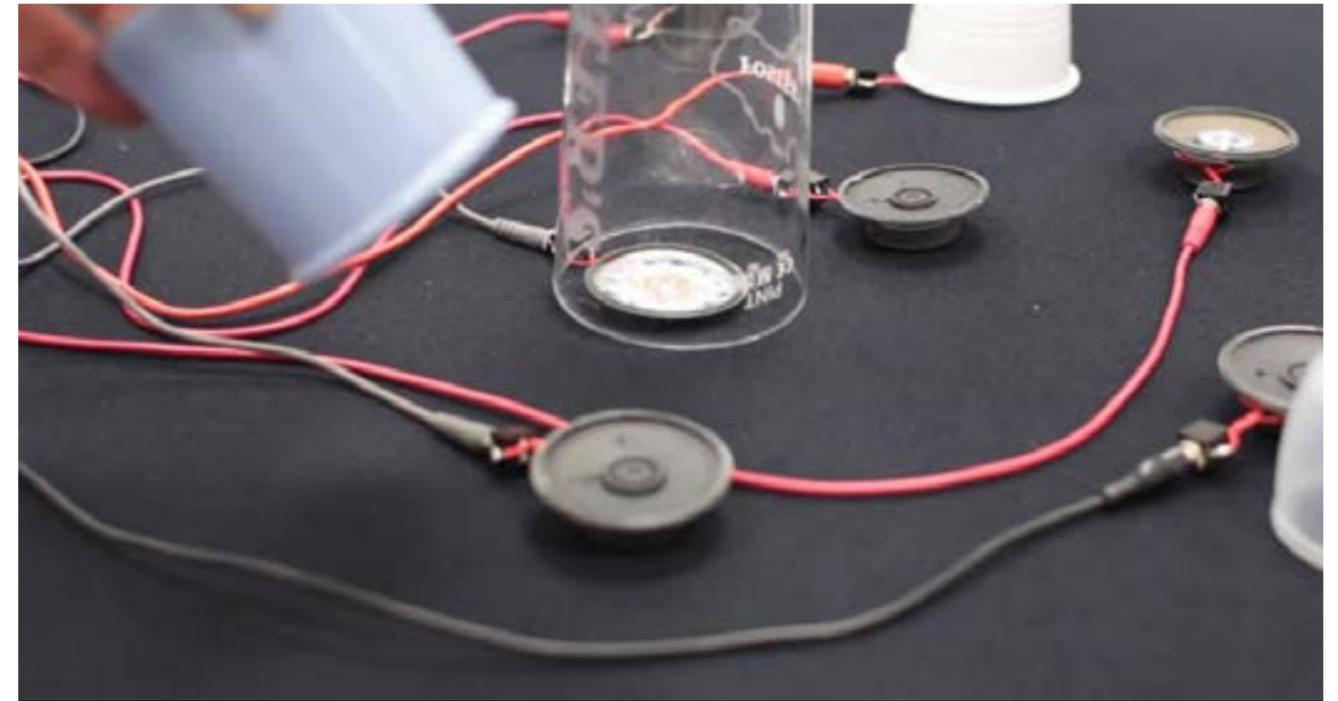


## WORKSHOP 3 : LISTENING & MAKING

We would like the structure to inspire attuned listening—both a space for experiencing the Reveil broadcast and for hearing the immediate environment and how both interact within PITCH. We'd like listeners to be able to reflect on how the physical structure of PITCH affects how it sounds and how this can be experimented with and tuned to the surrounding environment.

In this workshop we'll engage in some listening exercises, thinking about environmental soundscapes, sound within a structure (acoustics), material vibration and resonance.

We will experiment with filtering sound using various resonant objects (tubes, vessels, pipes) and recycled speakers. We will consider how the speakers inside the structure, playing the live Reveil broadcast, can be extended with resonant objects, and how this can shape the sonic identity of PITCH.



### EQUIPMENT LIST:

- Recycled hifi speakers
- Amplifiers
- Tubes
- Glasses
- Cups (paper/plastic)
- Drain pipes
- Cables

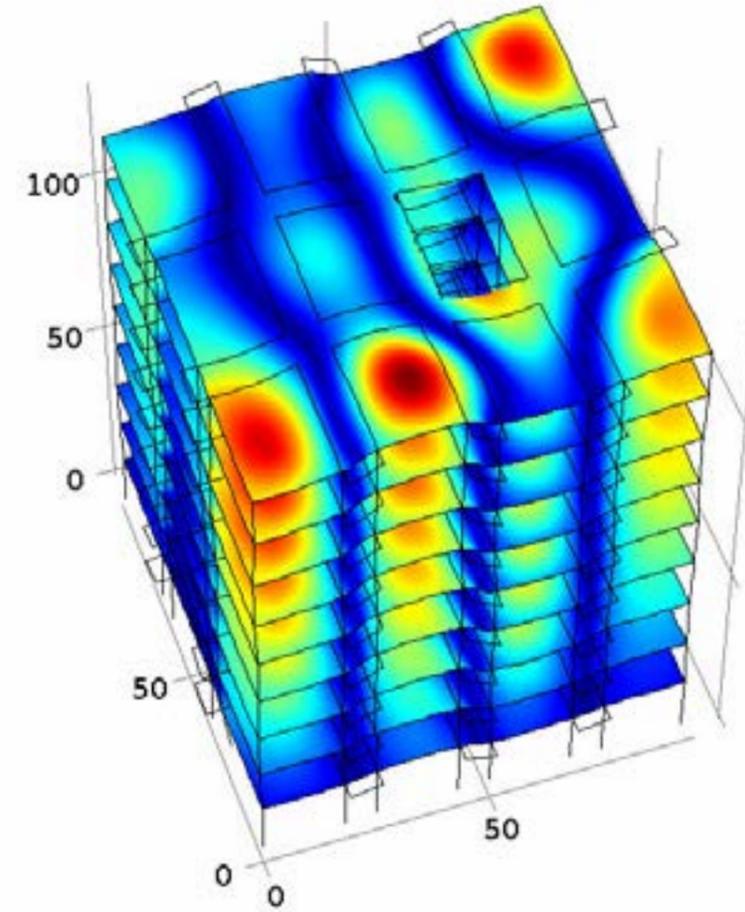


## WORKSHOP 4 : SOUNDING THE STRUCTURE

In this workshop we will experiment with surface transducers aka 'vibration speakers' and materials.

With these tools we can project sound directly into material and observe the different behaviours. We will explore ways thae these systems can be integrated into the structure. We would like to incorporate panels into the structure that we can transmit sound through, allowing the materials to demonstrate their sonic characteristics.

We can combine vibrations transmitted through the air with vibrations transmitted through material to create additional physical sensations as a means of experiencing sound. We'll discover which materials most effectively propagate sound waves and which sounds excite certain materials more or less.



### EQUIPMENT LIST:

- Surface transducers
- Recycled speakers
- Metal sheets
- Plastic sheets
- Wooden panels
- Amplifiers
- Cables