



It's Child's Play

Discovery & Play
Viewing through a Microscope



PHASE/ 01. Research and Design Analysis

Feature Object: Microscope

Date: About 1950

Location: England

- Microscopes used for botany and entomology
- Post WWII Ecological research boom

Concept Desirables:

- Large scale microscope that requires two person interaction
- Changeable microscope slides
- Located in an area of significance
- 1950s aesthetic theme



Interview 1 - Random Child participant (with parents permission)

Locations:

- Queen Elizabeth Olympic Park
- Canal
- Hackney Farm

Likes:

- Large natural space
- People
- Conversation starters
- Quiet places to read

Would you prefer to view a story, history, or science?

"I think science"

Interview 2 - Public Engagement Staff

Locations:

Victoria Park

Everyday Observations:

- Kids like the buildable blocks
- Kids like talking about video games / movies

Notes on The Young V&A:

Goes from the imaginary to the tangible
Considered the surrounding Bengali population

Location Desirables:

- Preferably has a hill or elevation
- Science center
 - NOT a museum
- Safe location for children

Lincoln's Inn Fields

London instrument Makers in Holborn from 1792 to 1860

This is a place of history for Microscopes in London and we want to highlight that



Public Engagement

"TAKE A CLOSER LOOK"

Strategy 1:

To engage potential users we want to implement small insect statues that have QR codes that provide information about our interactive Microscope Experience that would allow them learn more about now only the insects but explore them in a fun way

Strategy 2:

Another strategy would be to create posters or fliers with small insects and QR codes would be embedded within them providing the same



PHASE/ 02. Concept and Design Proposal

Goals:

Create a social space for children that encourages teamwork and exploration using the object found in the Young Museum. This includes a two person activity that can only be fully seen with collaboration modeling.

The object:

Our 1950s microscope will be highlighted being the main theme of the structure. We are using vintage patterns and technology to emphasize when the microscope was manufactured. We bring the history of microscopes in London to the forefront with the location and plaques.

Time:

This space will be active year round with rotating slides that bring interest for returning visitors.

Cost:

Average cost for a public play structure is £14,000-£30,000. Our project is a singular structure which brings the cost to the lower end of the spectrum, however, we propose investing in sustainable materials and accessible features, which will lead to additional customization costs.

The Microscope

Scale:

- 10 foot tall microscope

Function:

- Ramp going up to the top to allow accessibility
- Bug slides that can be changed and it takes two people to use and interact
- Slides include insects that are common in Holborn

Aesthetics:

- 50's theme patterns

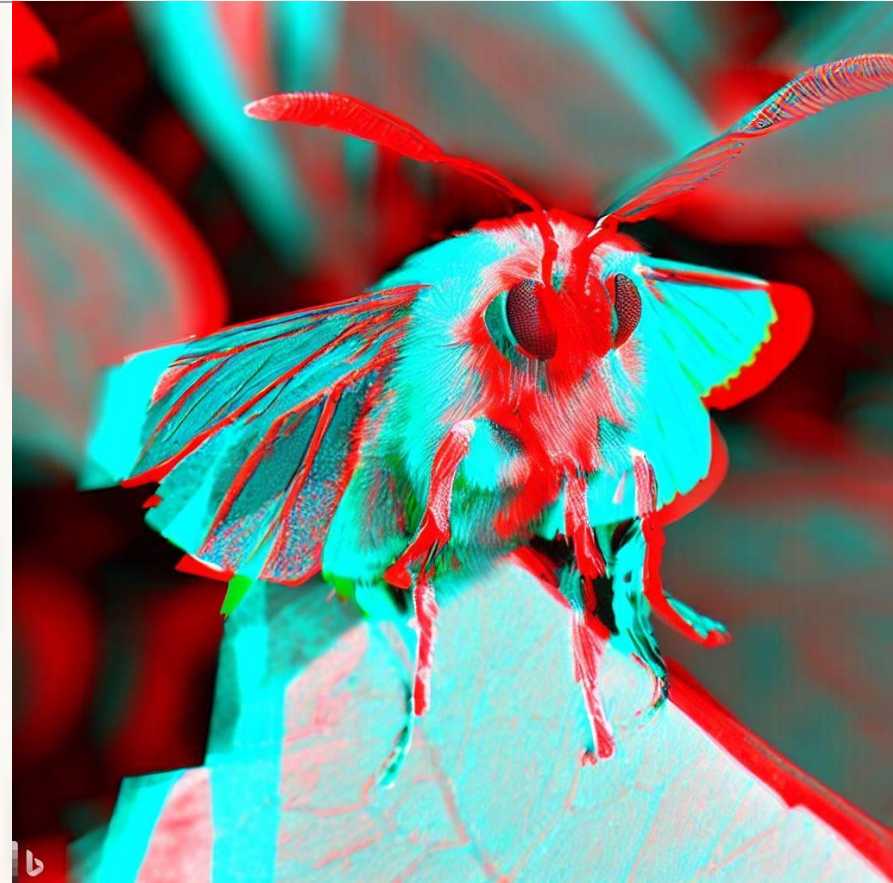


How does it work

Because we want to make this a unique experience, when users go to look through the microscope a 3D image of the insect in the slide below will be displayed.

This will be done through RGB Film layering. In the same way the old school red and blue 3D glasses work as shown earlier, the featured insect will come to life through the lens of the microscope.

Anaglyphs were invented in the 1800s, but rose in popularity from 1920 on. 1950s moviegoers would often be asked to wear the characteristic red and blue glasses and experience the film in 3D.





Themed playgrounds



Celestial Microscope
Statue by Charlie Carter

PHASE/ 03. Detailed Design Solutions

Materials

The Dutch NWO Research Council contributed to companies like Lego to support their non fossil Fuel initiative by creating bio based hard polymer plastics using glucose. In that same sense we would want to use the same bioplastic to create our microscope structure and slides for viewing the bugs. As for the ground material for the ramp we were thinking of incorporating reclaimed and recycled wood to ensure we are being conscious of the footprint our structure leaves.

Structure : Bio-based Polymer Film

Slide material : Bio-based Plastics

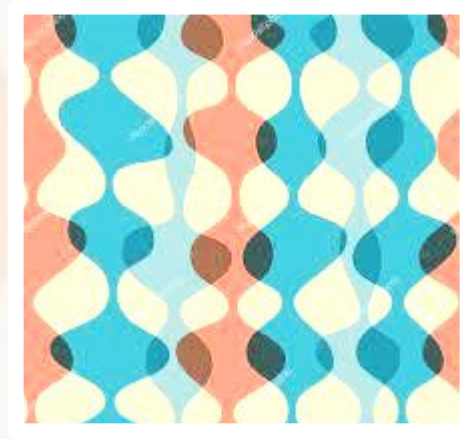
Ground material : Recycled Wood



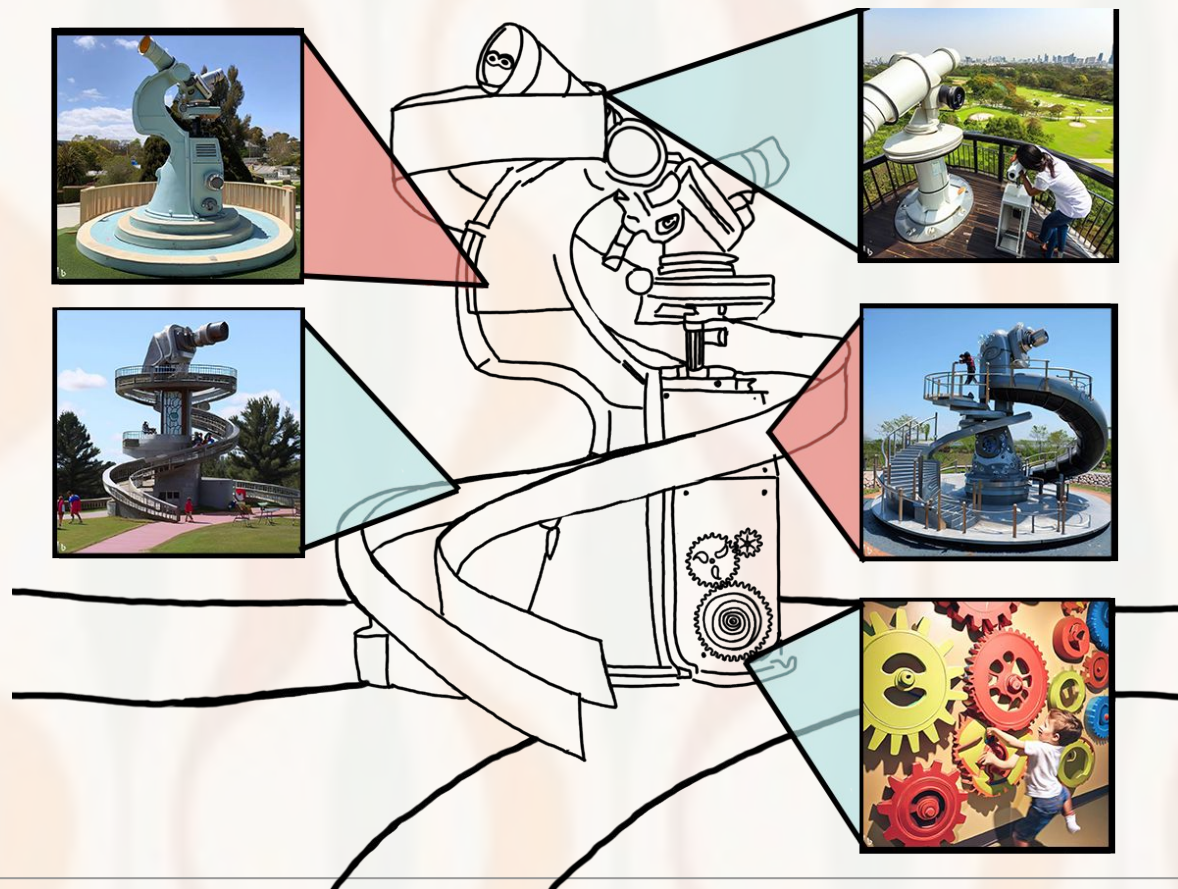
Color Palette



Pattern Palette



PHASE/ 04. Design Documentation and Intent



Are you ready to boogie?

Slide through the past and analyze the
world beneath your feet





THANK YOU FOR LISTENING