III t t le EDUCATION HUB

Little Einsteins is a Montessori inspired research & learning hub dedicated to the development of children in early learning education post COVID.

This space is created for children (aged 4-8) in early learning education that have had their development effected by the pandemic. This space actively addresses the challenges in education that are a product of the changes to social conduct as we knew it pre-pandemic. It is ultimately a design solution to how we can change the education system to positively impact children's wellbeing, mental health and social confidence.

Here, children are able to progress academically, socially and emotionally, interacting with adults and other children. These immersive spaces include sensory rooms, soft play zones and therapy rooms.

'PLAT IS THE WORK OF THE CHILD' - MARIA MONTESSORI

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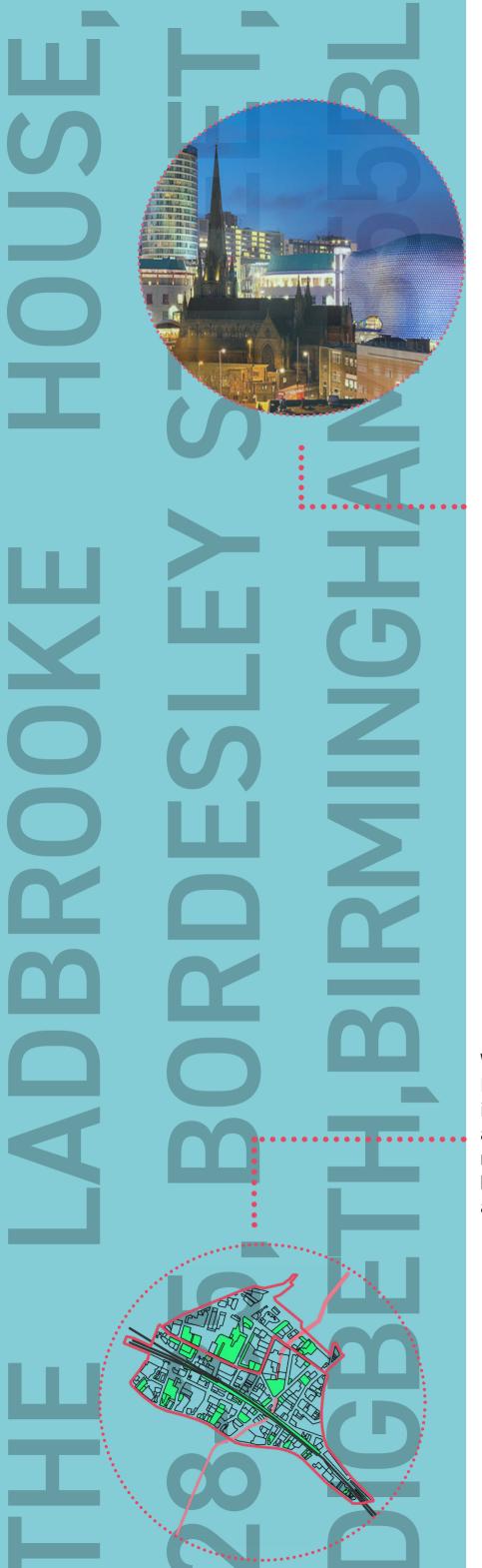
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THE COAL OF EARLY CHILDHOOD EDUCATION SHOULD BE TO ACTIVATE THE CHILD'S OWN NATURAL DESIRE TO LEARN' - MARIA MONTESSORI





The site sits in Digbeth, Birmigham. A populary city that has a lot of visits from people all over the country. Nearby, there are public transport services such as buses, coaches, trains and trams

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While the site sits within the Digbeth conservation area it is not actually graded in a listing, only locally listed meaning changes to the building is more likely to be approved

The current occupants of Ladbrooke house is the Ladbrooke Hotel. Alongside offering rooms, the hotel also offers a range of amentities including a bar and restaurant and a function room

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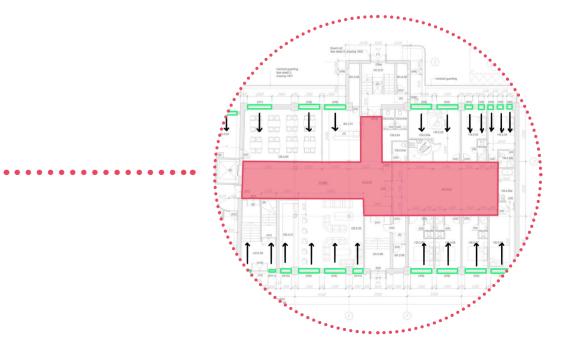


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> Structurally, the site has a grid that must be kept to hold the building up. There is also a big open space in the centre of the building that lacks or has no access to natural light

> There is also clear evidence of an extensions to the left side of the building



THE PROBLEM

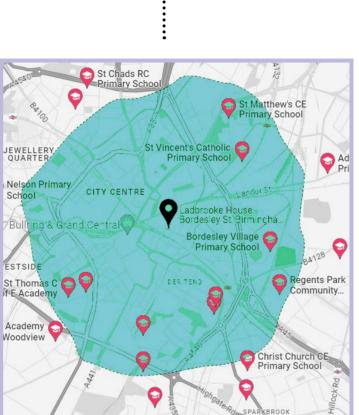
OPMEN

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The COVID-19 pandemic has had serious effect on the development of children in early years education. This is something that needs to be tackled because all children have a right to the correct support for their needs



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THE USER

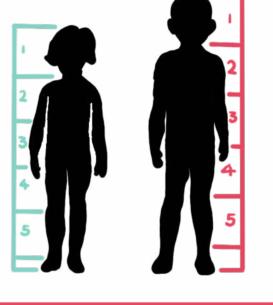
The direct context of the site is densely populated with primary schools. This shows that there is a user base for this type of design idea

THE IDEA

Taking inspiration from the Montessori education style, which is child led learning, A space can be created that accommodates all styles of learning as children do not always absorb information the same way



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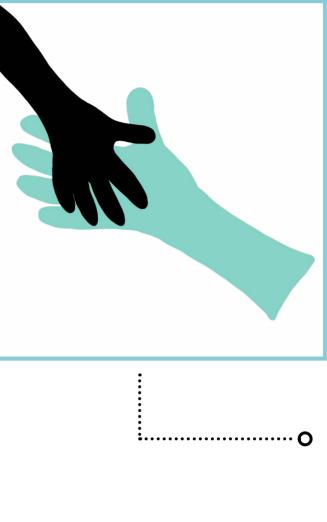


THE IDEA The Montessori method is supported with the understanding of childrens ergonomics and their perspective of a space. This will help inform spatial design decisions



THE IDEA

The existing space will be manipulated to create a visual connection of users in the space. Introducting an atrium will allow for the space to feel light and airy and also allow for visual access across all floors, combatting anxiety in children



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THE IDEA

All of these ideas will be supported by Le Corbusier's colour theory in developing a successful space with feature colours and a base material. This ideology also aligns with the materiality and aesthetic of the montessori style

THE CONCEPT OF THIS DESIGN WAS BUILT ON THE METHOD OF CHILD LED LEARNING. THIS INSPIRED NATURAL AND ORGANIC SHAPES AND I CAPTURED THIS THROUGH SKETCHING AND PHOTOMONTAGE



CURVED FORMS

One of the most dangerous features in a childs space is sharp edges especially when they're aligned with kids' eye levels or near their heads, hands, and legs. To avoid having to add protective extensions or stickers on the corners of furniture pieces, To avoid this, designers create spaces with curved forms, and rounded edges. Aesthetically, this makes the space feel more exciting and fun as there is an unpredictability about it

It is important to use materials that are easy to clean, harsh-chemicals free, and not prone to housing small insects due to the germs present in a child environment. Including the use of ingergrated handles instead of visible handles is also an example of providing a safe environment as children will not be tempted to pull on these things nor will they fall on them



SAFE MATERIALITY



SCALE

Interior spaces built for children should be scaled down to match their height and spatial needs so that they can move around and interact with the space without the intervention or help of an adult. Additionally, being in smaller-scaled spaces removes the feeling of being overwhelmed by regular-sized spaces, allowing kids to feel more safe and unrestrained.

INTERACTIVE SPACES Spaces have been designed to enable natural creativity and freedom of playing and exploring because children learn best through physical engagement in the form of games or physical exercises. While some prefer to refrain from using digital technology at such a young age, others like to engage their children early on



SENSORY APPEALING THROUGH MATERIALS

The use of textured surfaces has proved to further enhance children's sensory receptors. Surfaces that create sound with friction or change colors help stimulate kids' senses. Mirrors can also help stimulate children's recognition of their own body and face, and help them learn how to identify facial expressions and emotions. Colours can also improve sensory recongition as children often take to colourful space rather than white spaces

ACCESSIBILITY AND ADAPTABILITY

One of the most important characteristics of child-oriented architecture is child-only features. This allows them to rely solely on themselves. Accessible architecture is able to do this by allowing children to explore and navigate the space themselves, however, no child is the same, and each age group has a different set of spatial needs. This is why it is recommended that spaces be flexible, evolving in parallel to children's growth



CONNECTION TO THE OUTDOORS

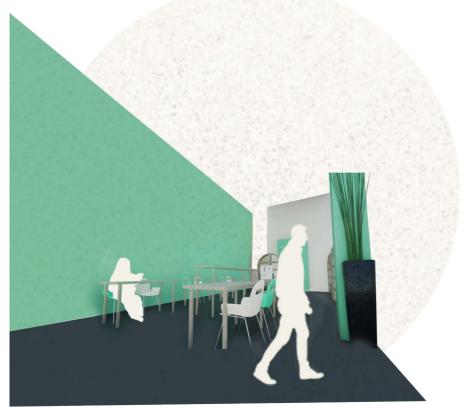
Taking into account the importance of the outdoors, architects can give access to nature through direct sunlight, extended landscapes from the outdoors, or water features. Projects built on the ground floor benefit from direct access to adjacent landscapes, giving children room to be out in the open



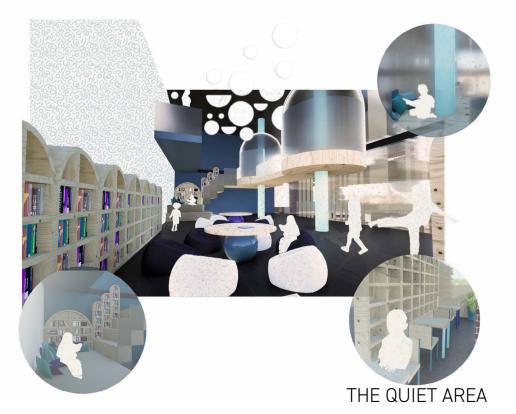
According to the Montessori method, having a lot of colors and textures in the same environment can cause confusion and irritation for children, especially those in the younger age spectrum. Therefore, the method recommends selecting very few options to help the development of decision-making capacities

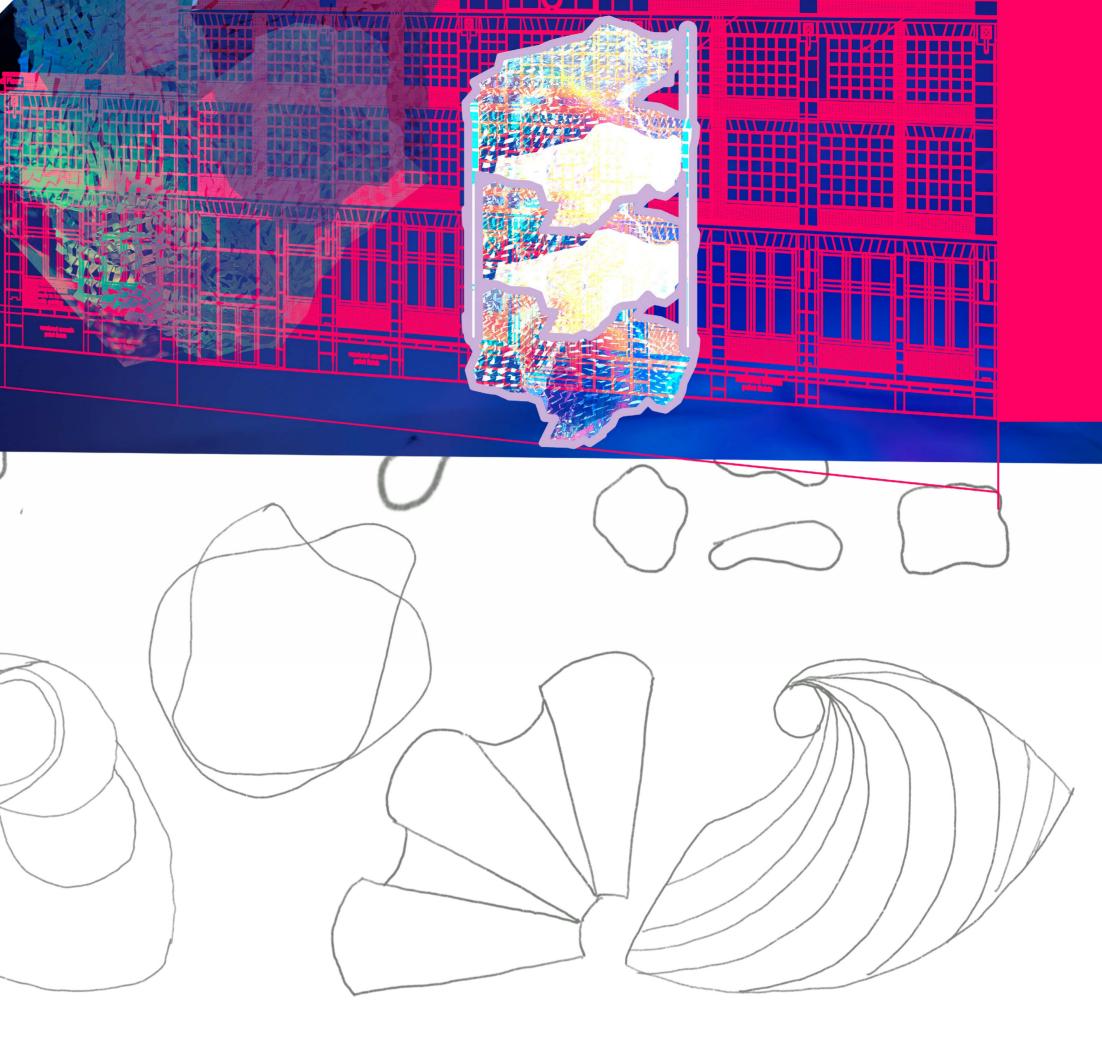


VISUALS



THE EXPERIMENT ROOM









THE MAKER SPACE

THE PLAY SPACE

A HUB FOR SUPPORT...

I think this is a successful space because spatially, I have been able to crea<mark>te a</mark> visual connection between parents and children whereby parents can watch their children in different areas of the building from that main space and children in the space get comfort in the fact that their parents are not far away

BASEMENT

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FIRST FLOOR

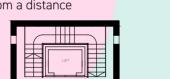
Design considerations also include family bathroom suites with parent and child toilets and nursing chairs that can be used by all as opposed to single stalls. This is in response to the user types as typically, parents with multiple children will use these bathrooms and so it is important for them to have the space to do so.

> Another design decision was to include a safe space for belongings such as coats and particularly pushchairs. This stems from the idea that parents often have to carry around a lot of things for their children so giving them the space to deposit these things temporarily allows for a better user journey

stories high (including the basement). This reflects the earlier design ideas of something vertical in the space that connects all the floors 00 \bowtie

> I decided to add a slide alongside the main entrance staircase as this appeals to the children users of the space and represents the idea of the space being part of an exciting journey - learning does not have to be boring

The hallway leading to the bathrooms does not have doors and this allows for children to have their own independence to go to the toilet by themselves but allows for visibility for easy way finding and to also allow for supervision from a distance



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The basement level is

The areas exist around the

main atrium space that is 4

mainly tailored to the parents of the space as some would be expected to wait for their children therefore there are different ways in which they can interact with the space:

Working parents have a more private area that can be used hot desk whilst in the space

Parents with younger children have a toddler room with facilities in which they can use to occupy them

> The group reading area

allows for

immersive

interaction

and the quiet

studying area

allows for one

The theme

colours of this

space as blue

tones create a

sense of calm

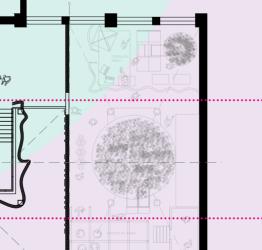
in a space

on one learning

learning

There are both adult and childrens toilets with the childrens toilet being bigger to allow for younger children to be accompanied to the toilet by an adult. These design decisions help make the user journey

easier



The quiet area is formed of a series of smaller spaces to create the optimal learning environment for children. The reading pods allow for privacy for children who are overwhelmed without having to leave the space entirely and this creates a better connection between children as it removes that social barrier

There are both adult and childrens toilets with the childrens toilet being bigger to allow for younger children to be accompanied to the toilet by an adult. These design decisions help make the user journey easier

Bathrooms on ground, first and second floor are

all located in the same area of the building. This is

so that wayfinding is easier in the building as it is a

large space, particularly for children and children

will have that sense of familiarity on each floor

