

Part 1

Lectures

- Into to Exhibition Design
- Crystal Flowers 2021 Exhibition Brief

(15 min break)

Part 2

Exercises

- Group discussion about collaboration in breakout rooms
- · Quick research exercise in breakout rooms
- Presenting exercises and discussion

what is art?



idea and medium





Ai Weiwei

communication



to an experience



something you get excited about

in an exhibiton

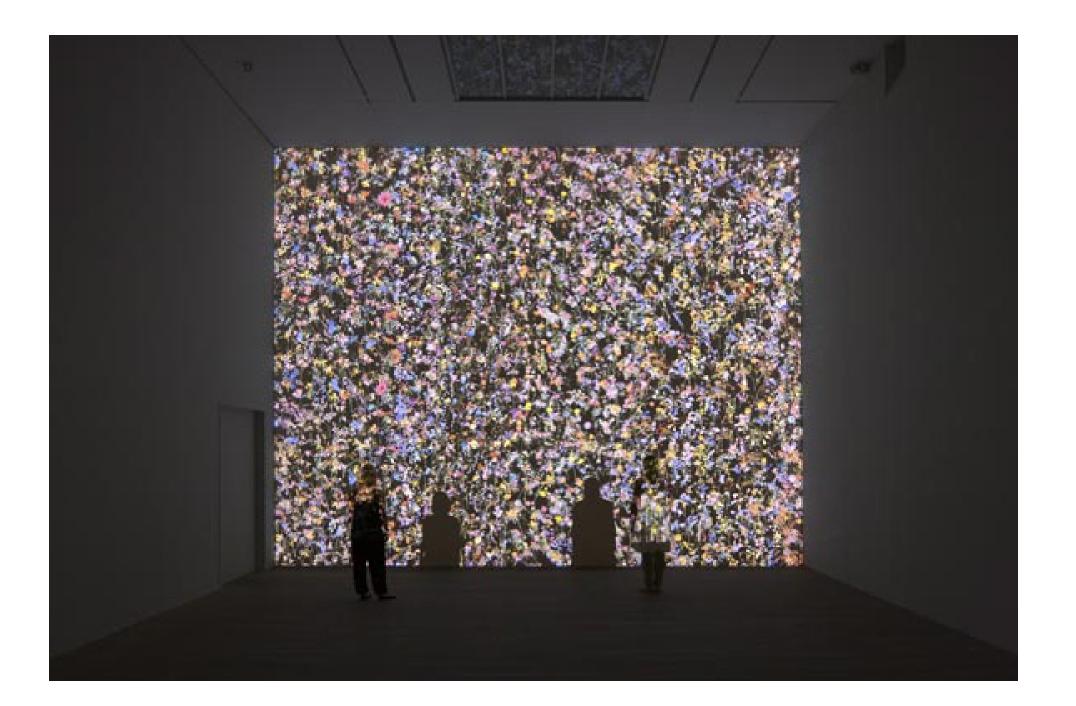


The moment is beautiful

As designers



modify the space



take advantage of the space



Teamwork



Synergy



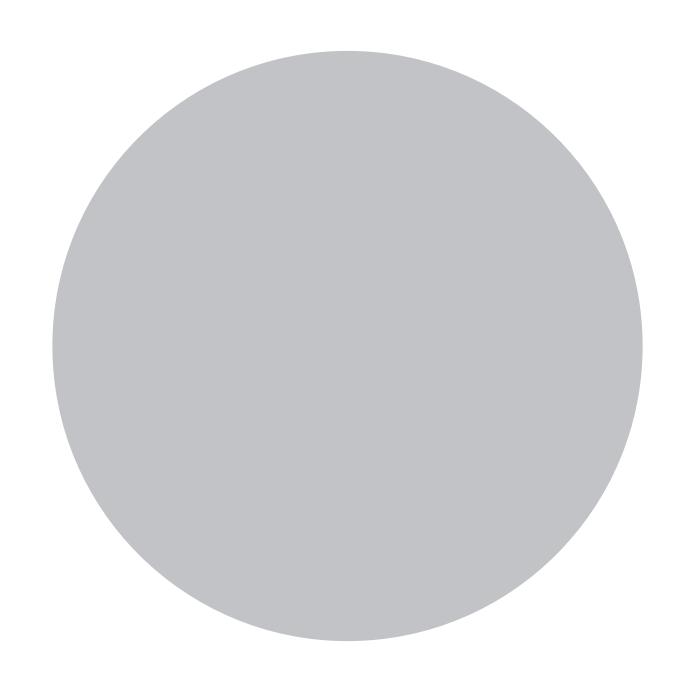
Power of teamwork and collaboration

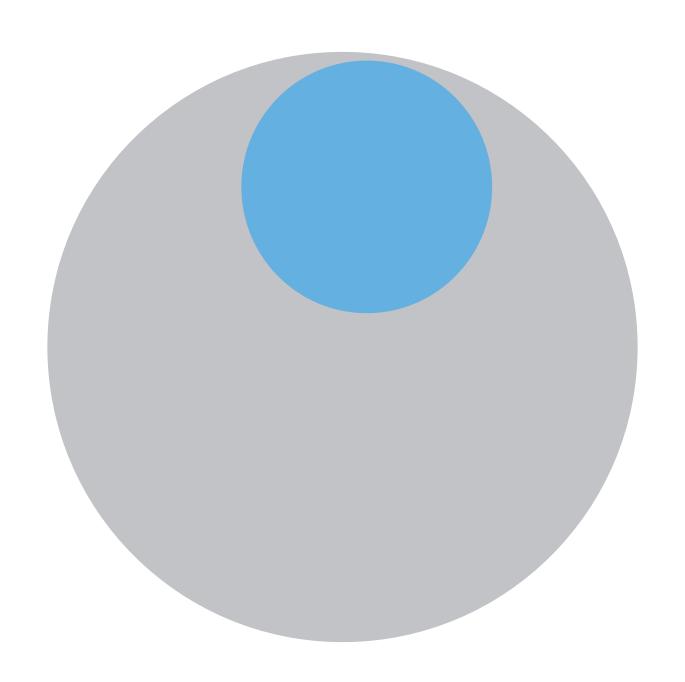
more variety and different experiences

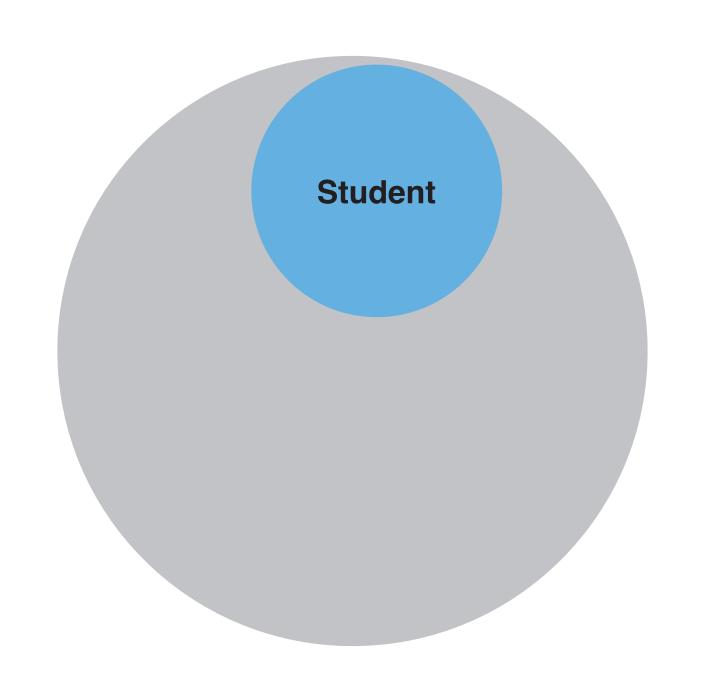


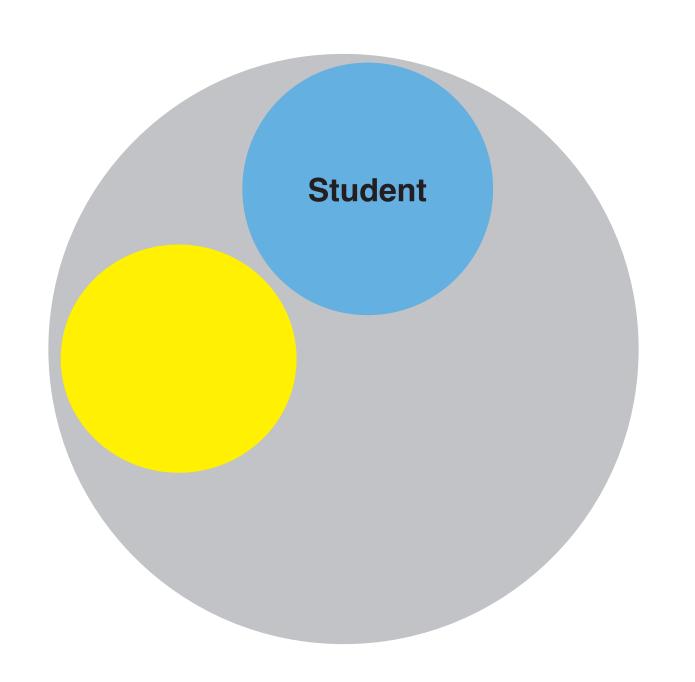


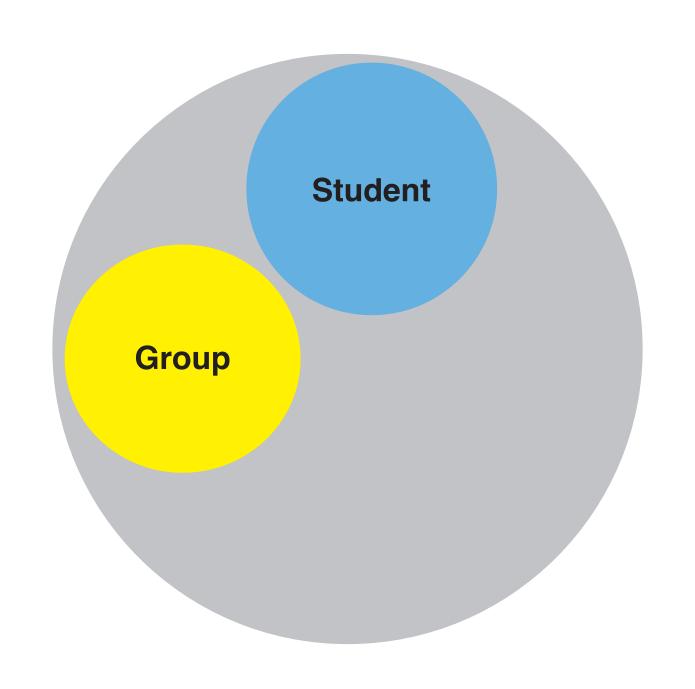
Memphis Group Renaissance

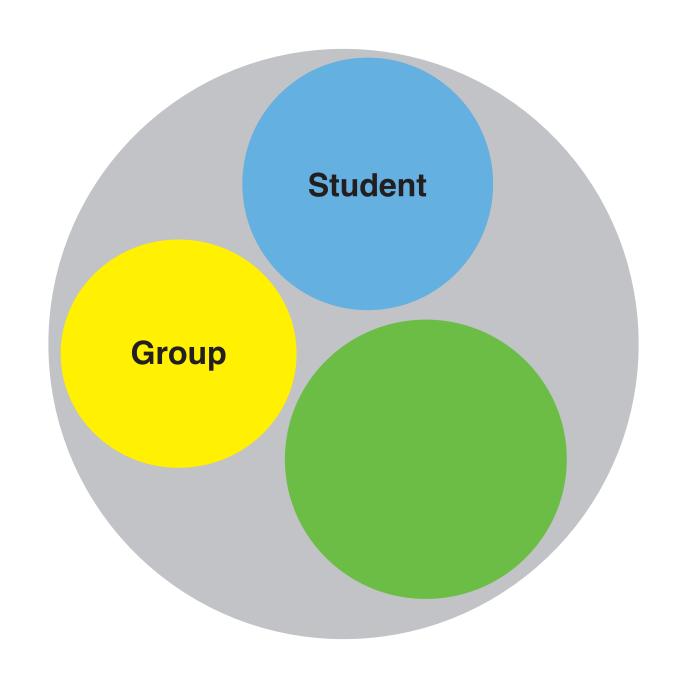


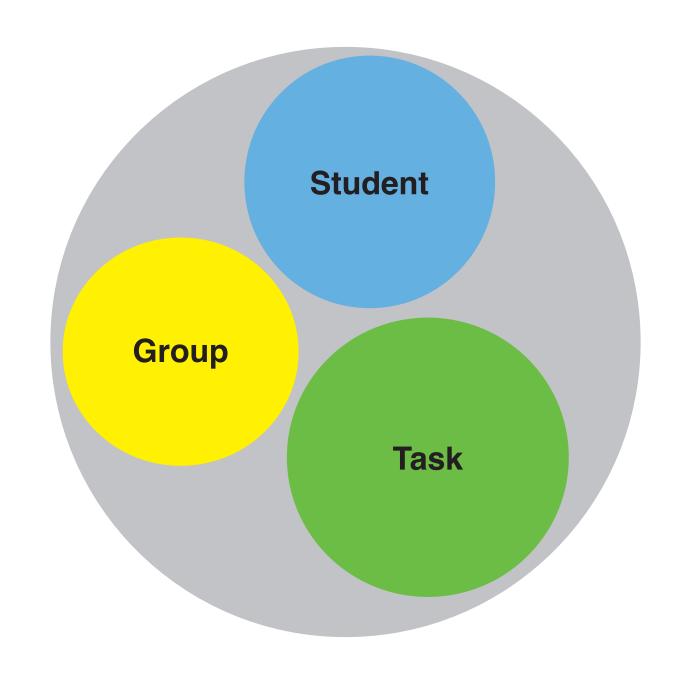


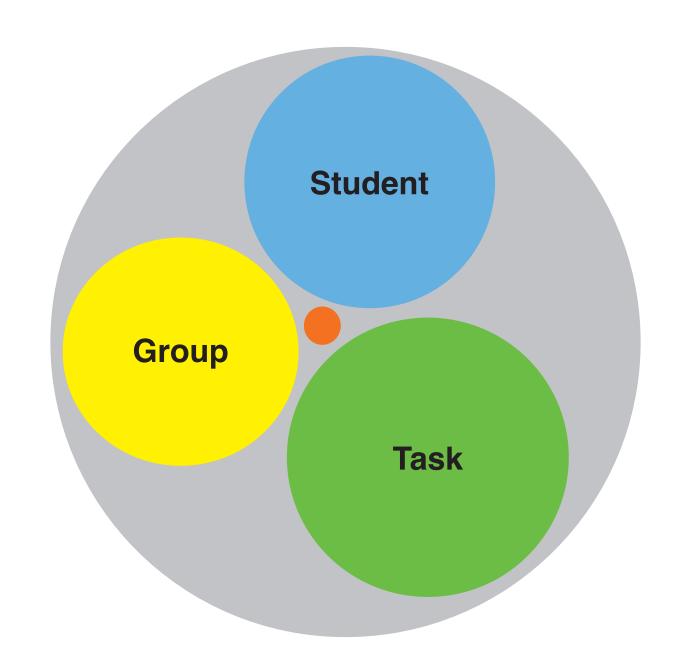


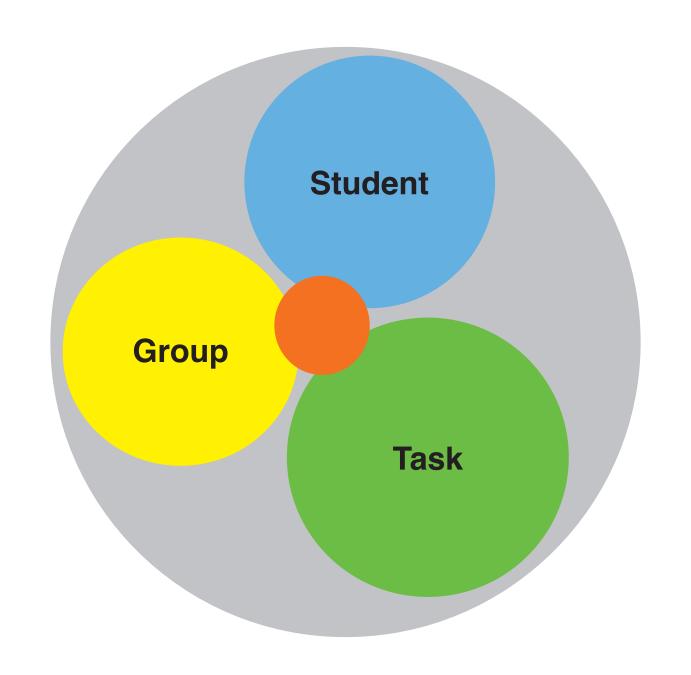


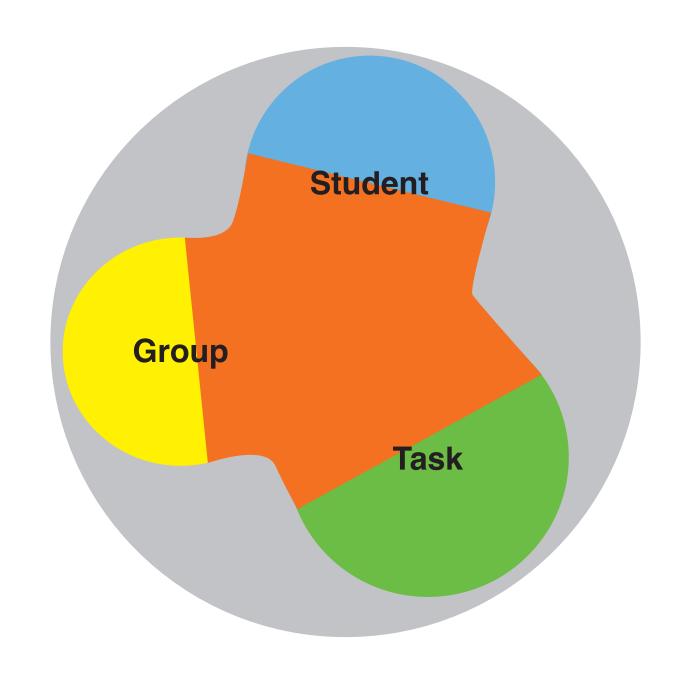


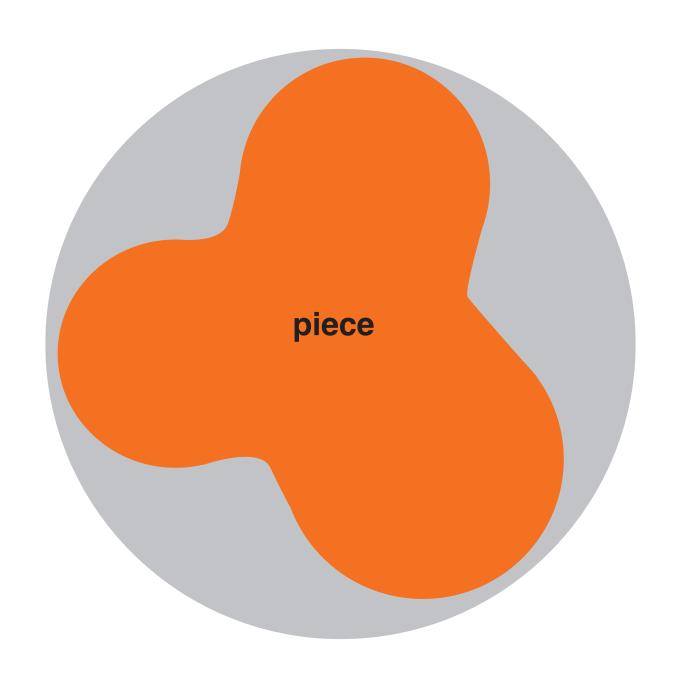


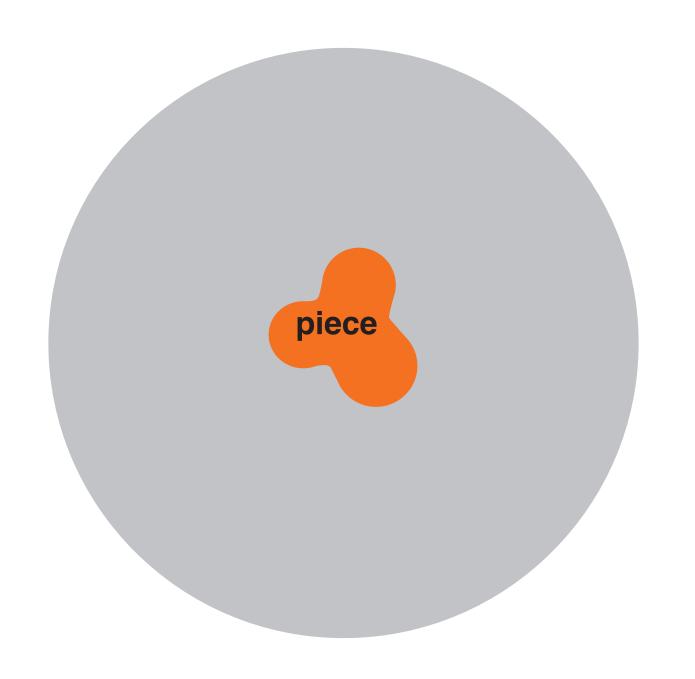


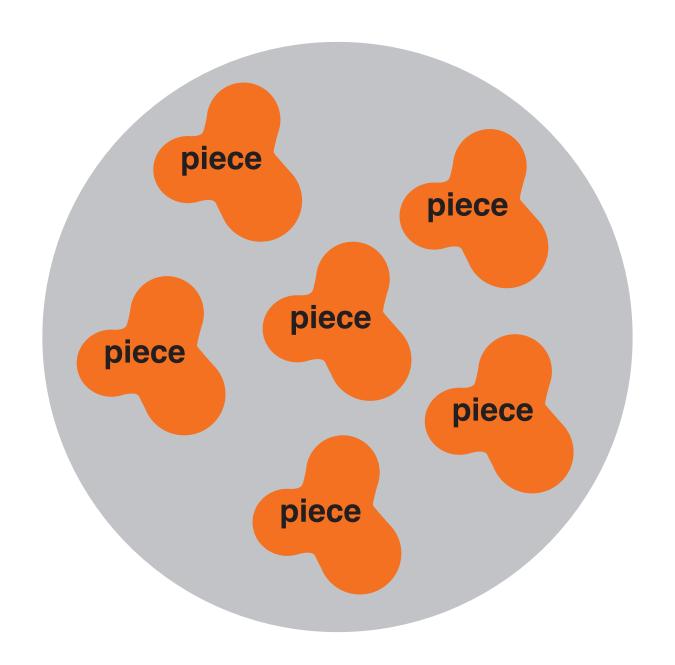


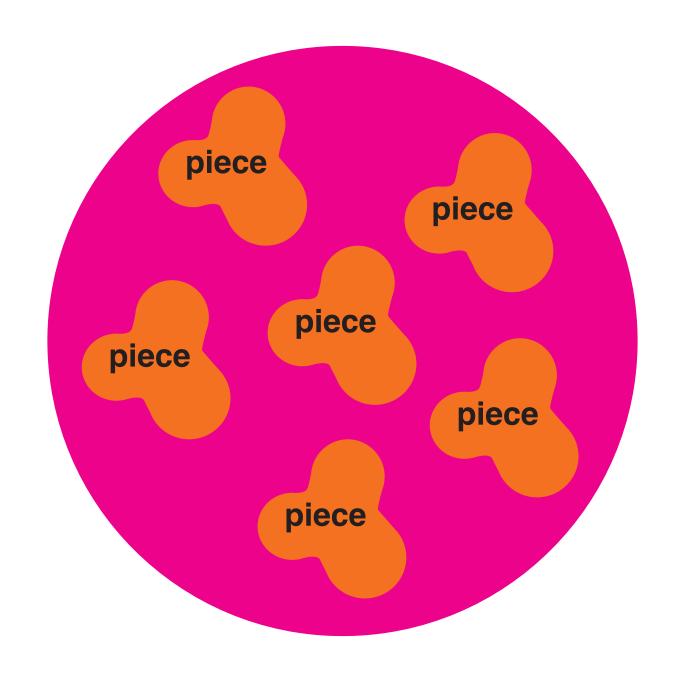










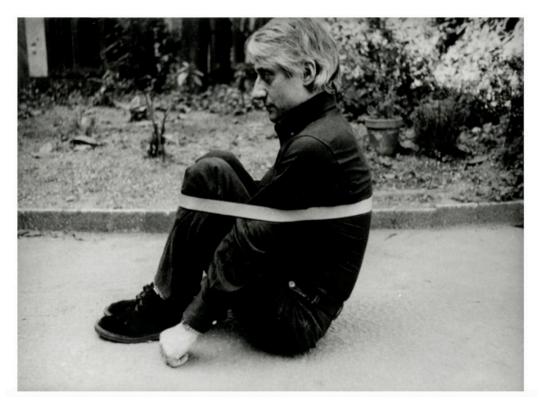


Prototype



Be free to experiment.

It helps you move step-by-step, clarify ideas and can reveal unexpected results.



Global Tools

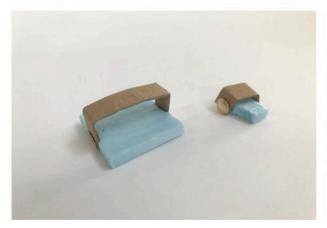


"Finding comfort in an uncomfortable chair" by Bruno Munari

..creating quick prototypes help learning how to proceed.









Fixperts

Curiosity





Crystal Flowers 2021 Exhibition Design Brief

Exhibition Brief

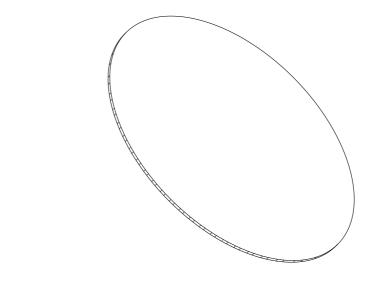
Exhibition Site Framework

Exhibition

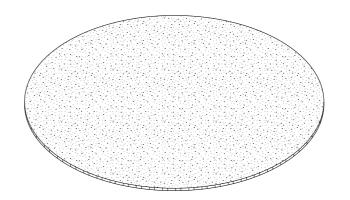
Crystal Flowers in Halls of Mirrors Otakaari 1 Summer 2021 and beyond

Exhibition Design

Marco Rodriquez Markus Holste Luiza Sevele



Collineation Grounds





Exhibition Brief

Crystal Flowers 2021

Spring 2021 course online / at Design Factory

Teachers

Kirsi Peltonen (SCI, Mathematics) Taneli Luotoniemi (ARTS) Laura Isoniemi (ARTS)

Exhibition Design

Marco Rodriguez (ARTS)
Markus Holste (ARTS)
Luiza Sevele (ARTS)

Students

From freshmen to PhD students (All schools of Aalto)

Theme of student projects

Interpretations from low dimensional geometry and topology

Outcomes

Artworks that communicate between art and mathematics

Form

Sculptures (lightweight), installations (small scale), physical puzzles, games, digital, etc.



Exhibition BriefGoals of Exhibition

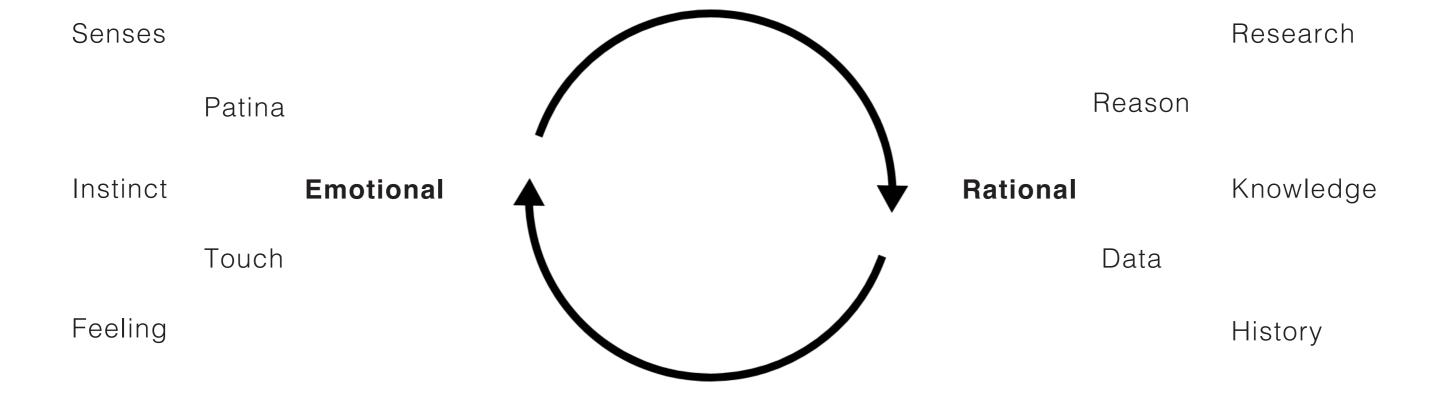
Project goals

- · Make maths approachable through art. To advance and share human understanding of mathematics.
- Solid and artistically high-level exhibition. Seeing mathematics as a source of inspiration for visual practice.
- Engagement of wide audience. From Arts to Maths and more
- · Collaboration and interdisciplinarity. Knowledge and interpretation of multidisciplinary student teams.

Main purpose

- Artistic expression. The students present a mathematical phenomenon or a concept with a strong artistic expression.
- · Added value to the site. The exhibition creates added value to the site highlighting the experience of visiting exhibitions.







Exhibition Brief

Exhibition Site

Framework



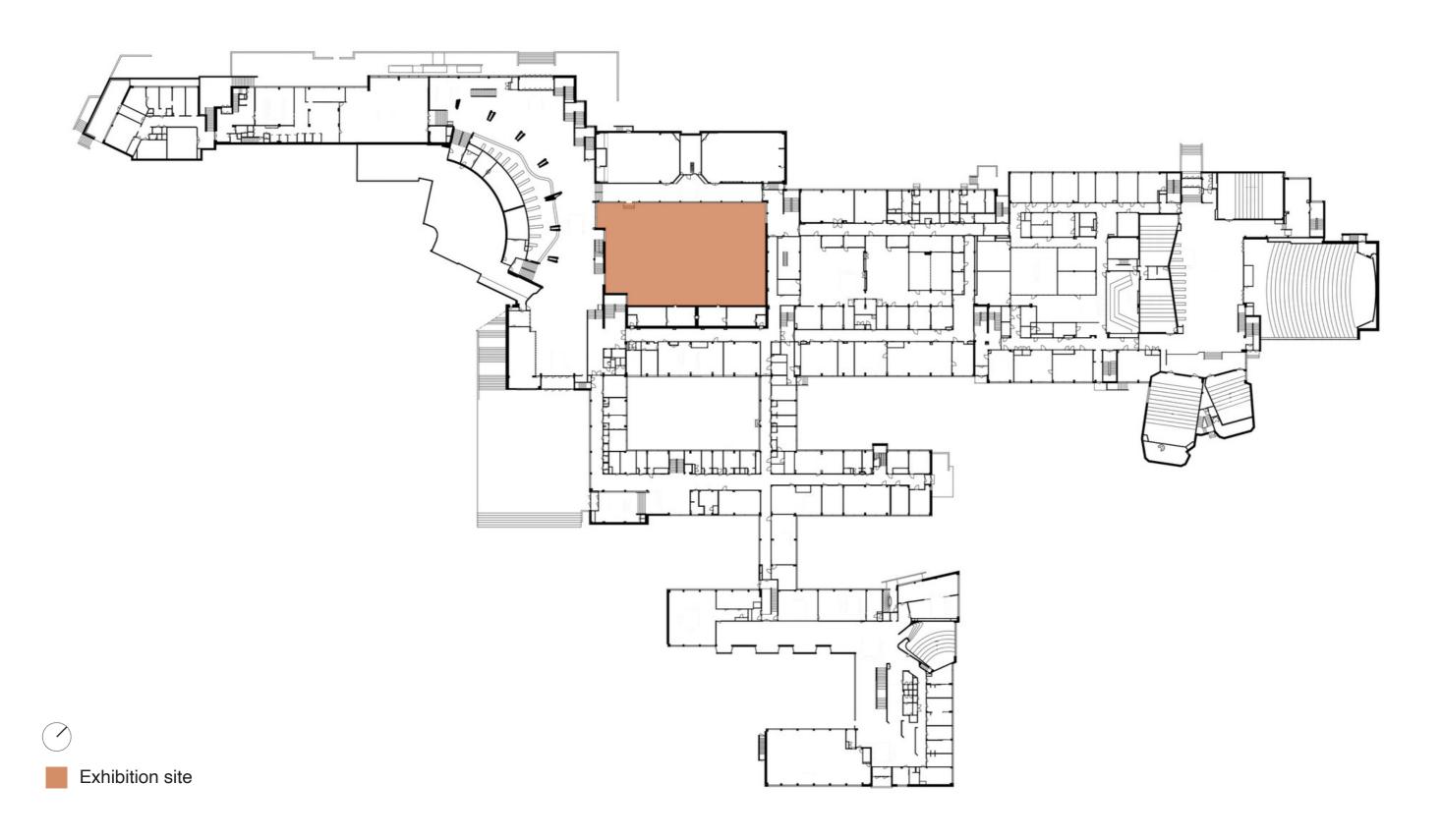
Aalto University Undergraduate Center (Otakaari 1)

'Completed in 1964, the Undergraduate Centre designed by Alvar Aalto was previously known as the University of Technology main building, and it is still a landmark on the Otaniemi campus. The south side of the building houses the architectural masterpiece of the campus, a terraced festival square. The culturally and historically significant, protected Undergraduate Centre houses 11 medium-sized halls. The foundation was laid in 1962 and the building was completed in 1964.' (aalto.fi)



Exhibition Site

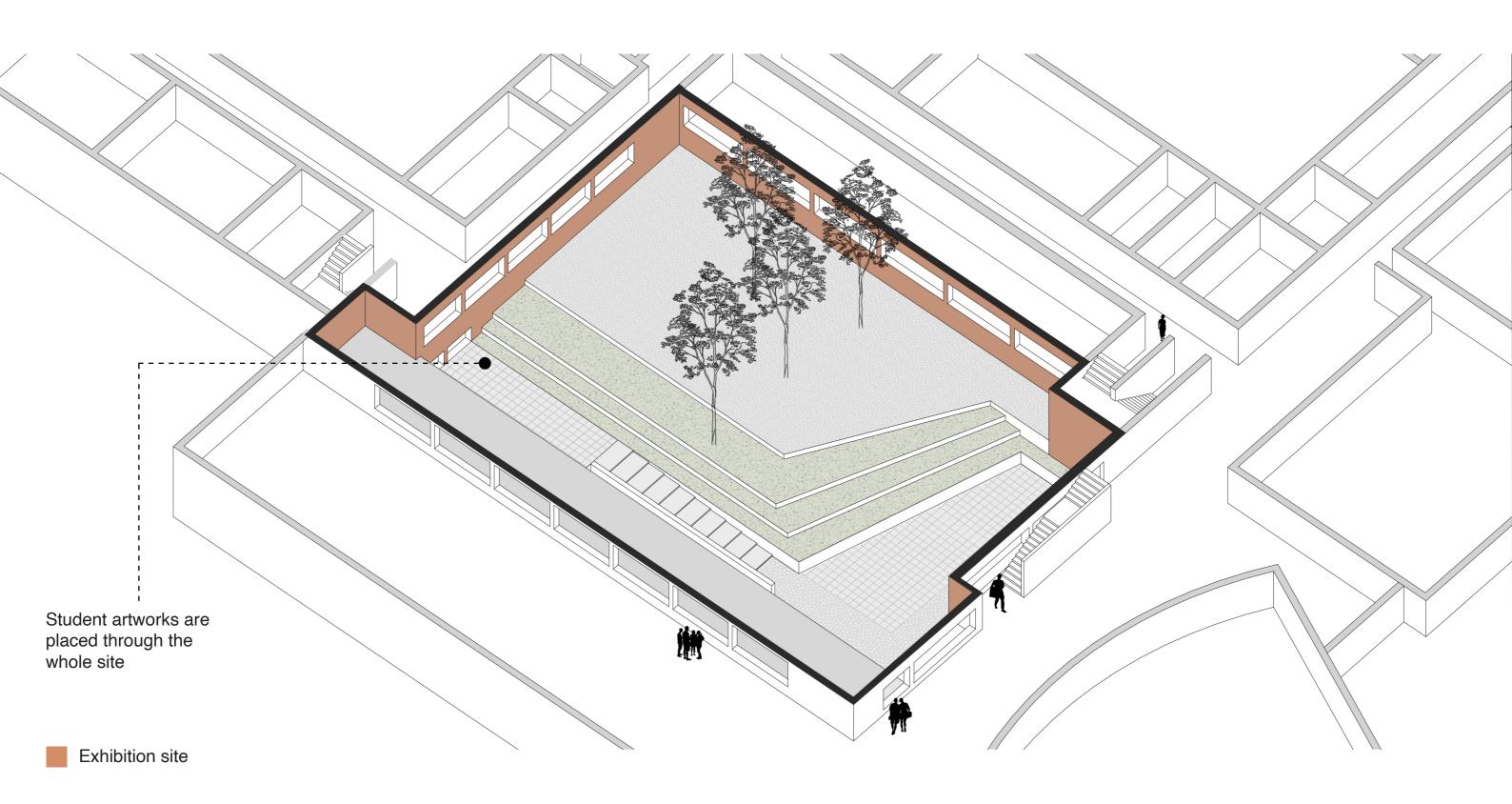
Location



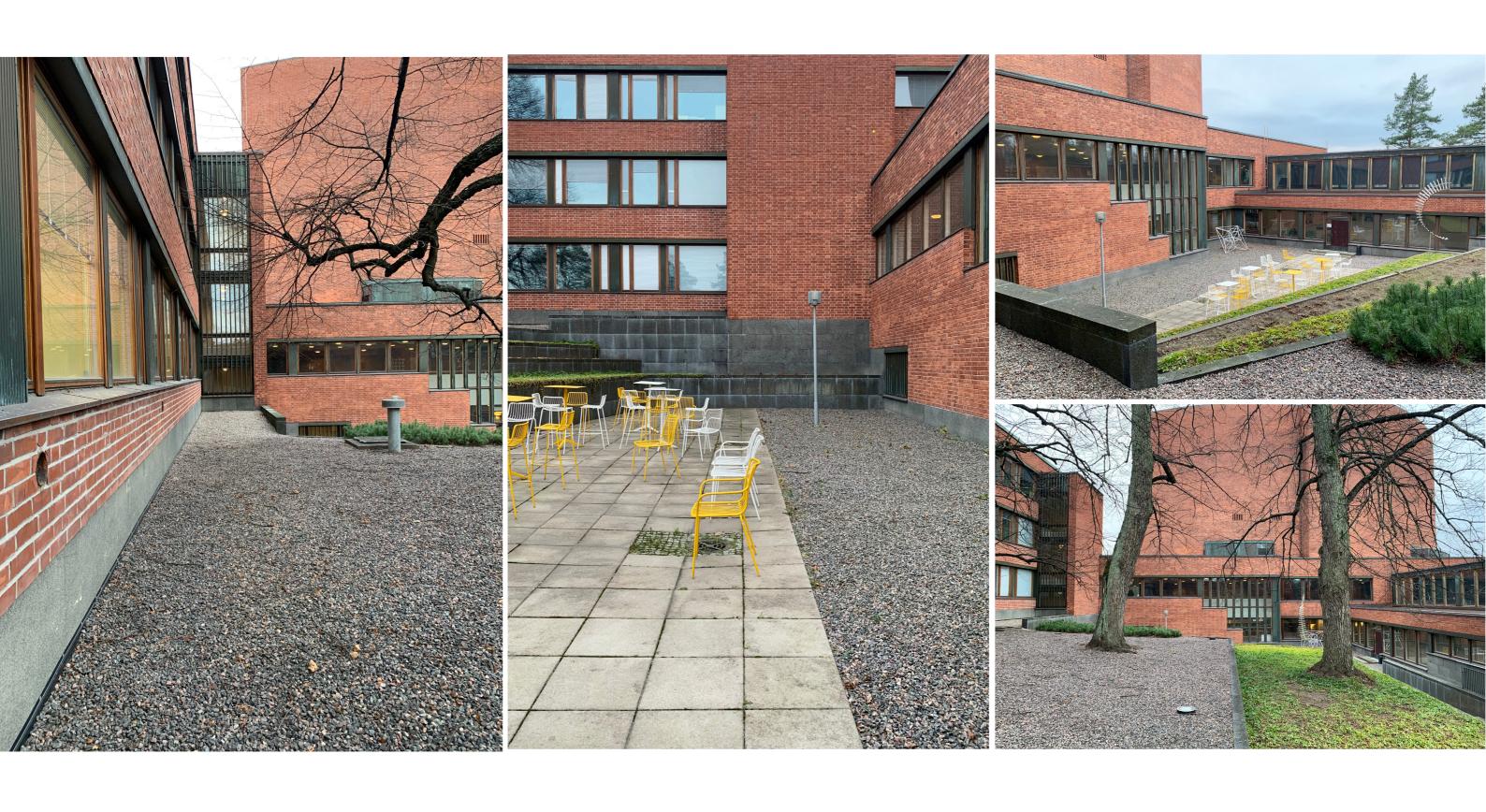


Exhibition Site

Site view









Exhibition Site

Referencing the site in design



Collineation Grounds

'Collineation Grounds' is an arena to capture material representations of topics from low dimensional geometry and topology. The exhibition provides a framework to show a continuity/larger scale of mathematical concepts with a sense of materiality and an emotionally strong expressions of a rational process, or vice versa.

Referencing The Site: Consider Time

The site, inner courtyard of Otakaari 1, works as a canvas where to reference from for the materiality of the artworks, especially in relation to space and time. This invites the students to explore matters as tangibility and connection of physical objects and natural space when finding their way of creating an artwork fit for the site and mathematical theme.



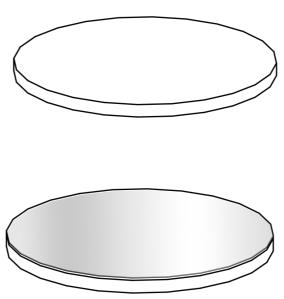
Exhibition Brief

Exhibition Site

Framework

Platform

Students use 1-1,5m base platform to create a standing artwork



Exhibition setup invites students to create an artwork either standing from a base plate or as lightweight structure between two platforms. The two surfaces emphasise:

- artworks physical presence in its surroundings,
- concepts continuity outside of it (a collineation/projection 'caught' in place).



Student Artworks

Students create artworks (sculptures, installations, physical puzzles, games) based on the theme: Interpretations from low dimensional geometry and topology.



BB



B

Material examples: wood (coated, laminated, airplane plywood...), rods (metal, wood, other?), textiles and strings, ice paper or translucent sheets, ceramics (small scale), recycled materials etc.

Materials for the student artworks focus on material experimentation, lightweight sculptures and - structures. Overall, the artworks consider also time and sensibility in the material expression of mathematical idea. Aim of the material choices are to connect the artworks further to the site and create a sensual approach to mathematics. It will be crucial to understand also the effects of outdoors to the chosen materials and structures (wind, water, sun etc.).

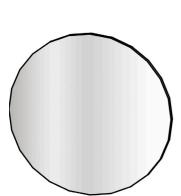


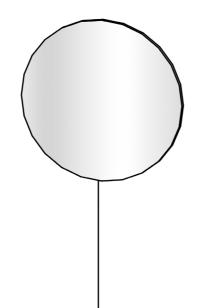
Mirrors

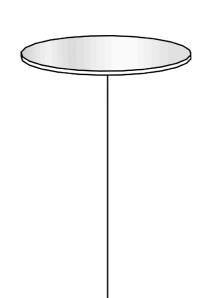
Round mirroring surfaces are used as unifying components in exhibition. Mirrors are used in different quantities, angles and directions - emphasizing artworks and the surrounding.

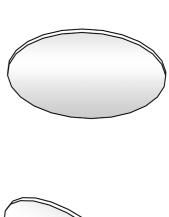






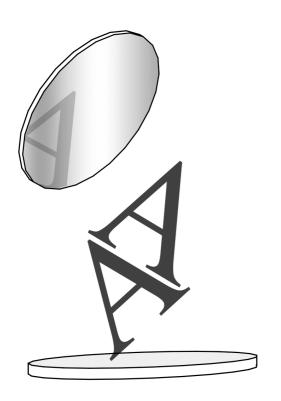


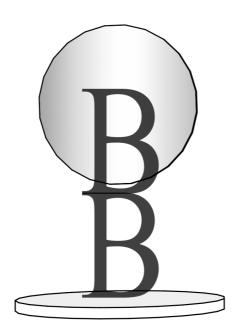




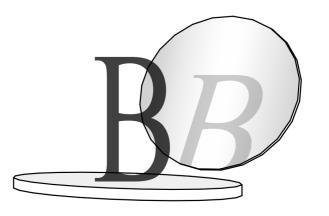
Why mirrors or other reflective surfaces? The use of mirroring surface extends the artwork as a wider concept and alters the experience of viewing art differing by changing angles/distance.











Framework

Materiality moodboard

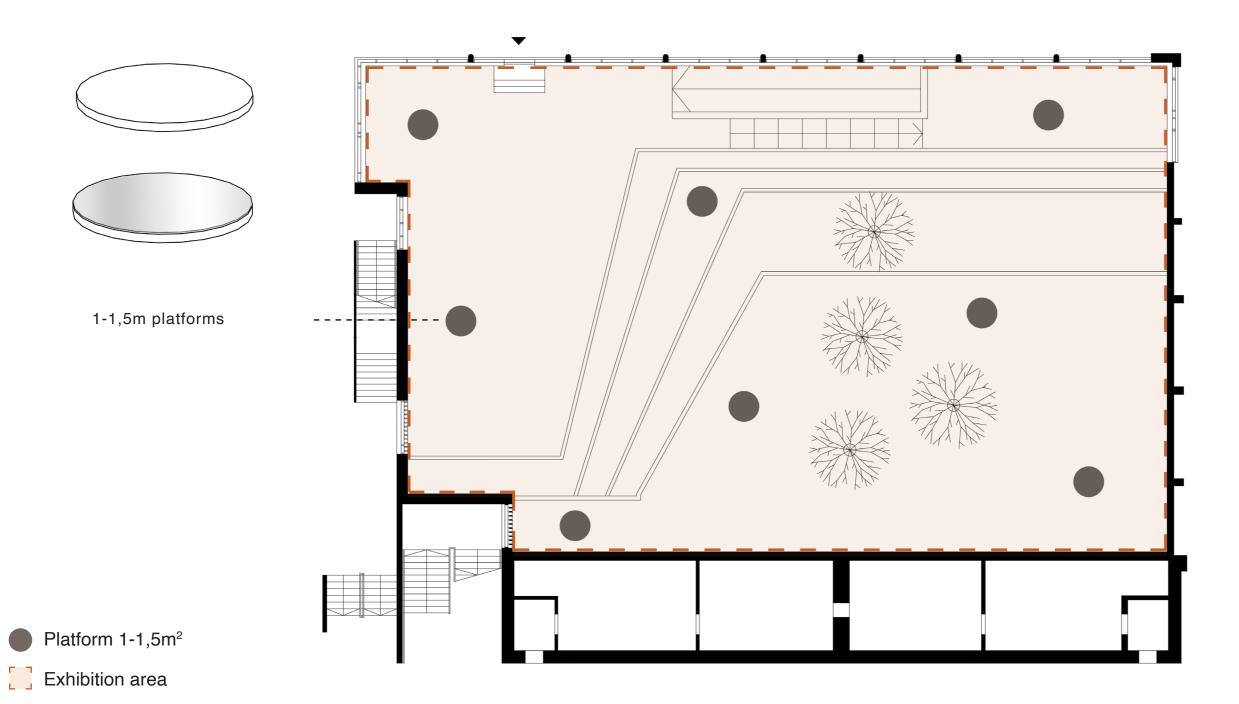




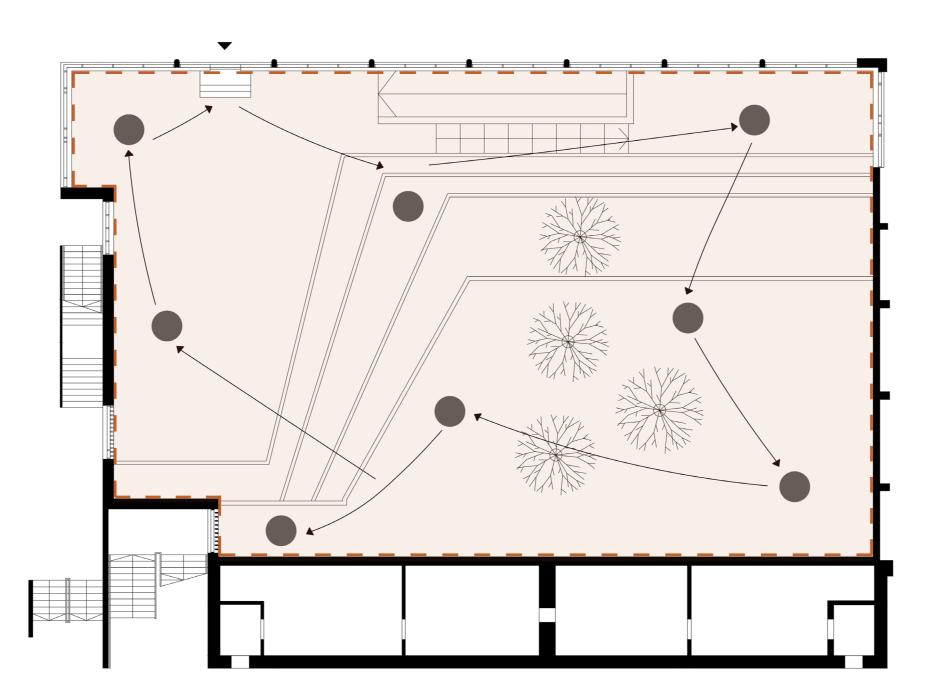














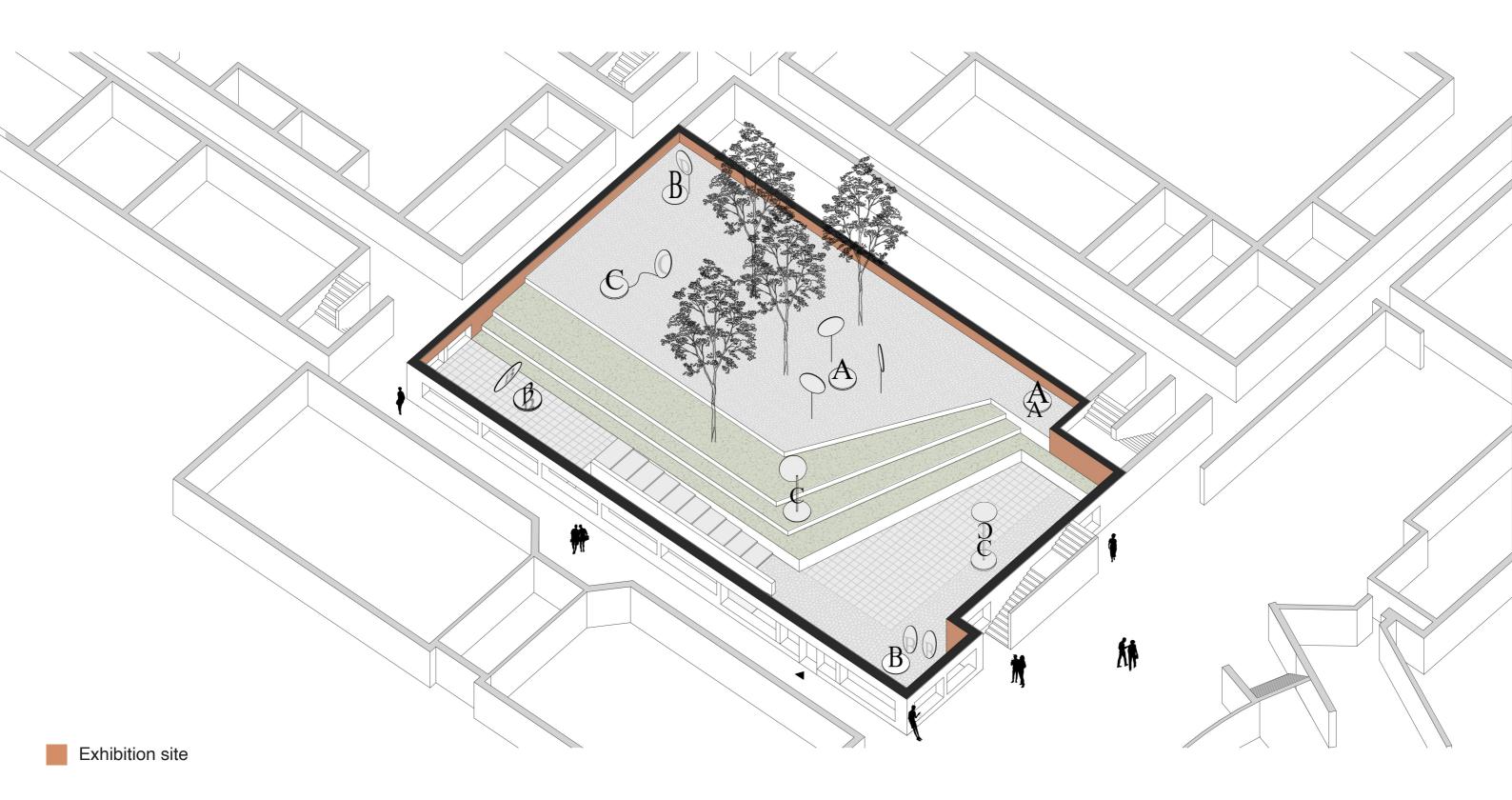






Framework

Spatial design









Timetable

Task 01 (19.01-28.01) / Research and collect

Task 02 (28.01-16.02) / Preliminary concepts

Task 03 (16.02-16.03) / Main proposal

Task 04 (16.03-20.04) / Final presentation

Production and setup (20.04-23.05)

	JANUARY	FEBRUARY	MARCH	APRIL	MAY
TASK 01	19.01.2021 Handout Task 01				
TASK 01, 02	28.01.2021 Deadline Task 01 Handout Task 02				
TASK 02, 03		16.02.2021 Deadline Task 02 Handout Task 03			
TASK 03, 04			16.03.2021 Deadline Task 03 Handout Task 04		
TASK 04				20.04.2021 Deadline Task 04	
PRODUCTION				Production pieces	Production pieces
SETUP OF EXHIBITION					Set up exhibition 12.05.20-23.05.21
OPENING					25.05.2021



Thank you! Questions?



Exercises (40min)



Exercise 1

TEAM:	
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TEAMWORK	COURSE GOALS	OUR RULES AND COMMITMENTS
What skills and experience we have?	What do we want to achieve personally/as a group?	
How to best use our experience and skills?	How do we achieve our goal?	_
What challenges can come and how to overcome those?		



Exercise 2

Quick group research in breakout rooms

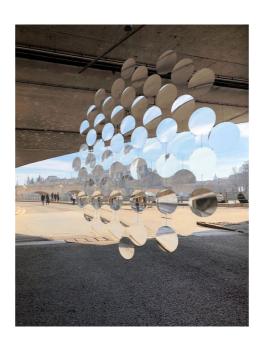
Each group looks for 2-3 examples that could fit into some the following subjects. Research the concept, main idea, specific factors and details.



Subject 1
Artworks and design works based on geometry or mathematics.



Subject 2
Architecture and spatial design.



Subject 3
Reflections and mirrors in art and design.



Subject 4
Lightweight structures and materials.



Subject 5

Mathematical art.



Thank you!

