

Summary of changes from RIBA Stage 2 to RIBA Stage 3:

- Project divided into 2 phases, with separate buildings.
- Facade development: patterns and a vertical fins introduced to relate to the historic grammar school building.
- Detailed development of the car park landscaping and lighting designs.
- Reduced size of carriageway and landscape to car park to discourage speeding.
- Introduction of a physical barrier with planting to parking area.
- Development of landscape designs.
- Although there is a reduction in the area of the playing field there is no loss of playing pitches.



Detail of west elevation



View of proposed new building on Hurst Road facing south.



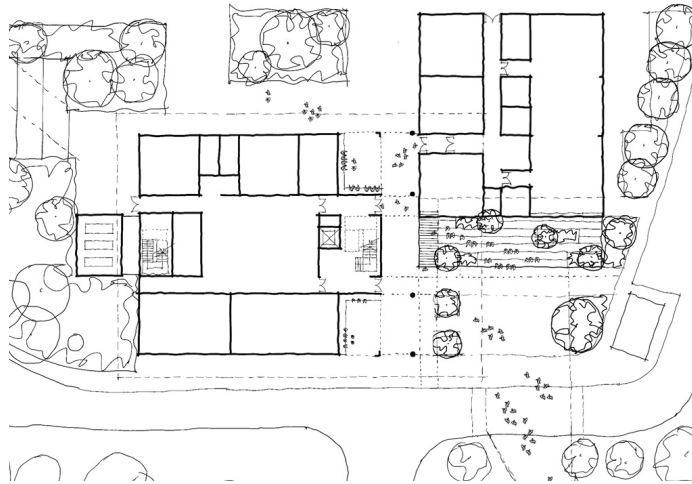
Reference to the pattern details and verticality of the grammar school.

3.8 Developed Design

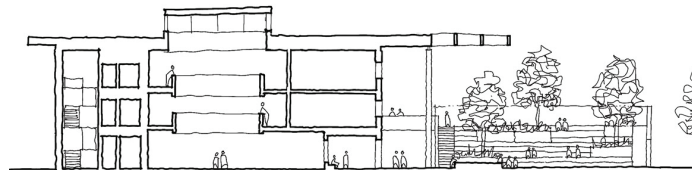
The design team responded to comments received on the building design – ensuring it is human scaled and takes cues from appropriate buildings on campus.

Key moves included:

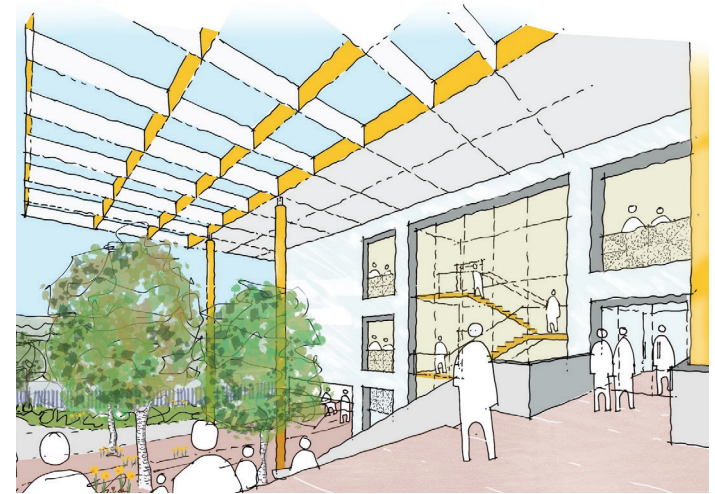
- Extending the Phase 1 roof to provide a permeable cantilever covering a new landscaped space at ground level.
- Activation of ground floor areas adjacent to the building, with brick landscaping to reflect the historic building.
- Revised articulation and detailing of the façade – a grid system with detailing inspired from the Grade II Listed grammar school building.
- New landscaped steps to the front of the Phase 2 building, framing an open space for the wider student community and including a first floor connection to the main building.



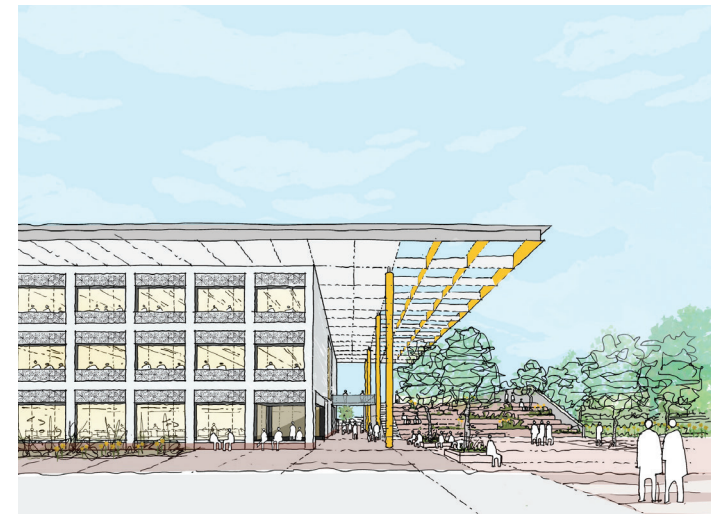
Ground Plan: Landscaped steps are introduced.



Section sketch idea.



First floor connection to Phase 1.



Sketch view of the entrance from Hurst Rd.

3.9 Phasing

A key outcome of the initial stage was the preference - for practical reasons and economic resilience - for the new Technology Centre to be delivered in phases.

The concept design idea to group the functions generated the division of the Technology Centre into two phases.

Phase 1

- With reference to the use brief above, this building will house dry science, maths and general areas.
- Plant areas, including an external air source heat pump enclosure, to serve both phases.
- New entrance gates
- New car park
- New permanent and interim landscaping

Phase 1, as the larger phase, is scaled to work with the existing buildings on the campus. Enhanced by the interim landscaping, it will be anchored in the context and act as a new landmark and gateway on Hurst Road.

Phase 2

- With reference to the use brief above, this building will house the engineering and design technology workshops
- IT classrooms, office, storage and preparation areas
- Landsaped steps, terrace and level 1 link to Technology building.

Phase 2 will be on a single level, at a scale in keeping with the residences on Hurst Avenue.

	Phase 1		Phase 2		Totals
					
LEVEL 0	8	80	5	112	205
LEVEL 1	7	168			175
LEVEL 2	6	144			150
Subtotal	21	392	5	112	530
TOTAL					

 Staff

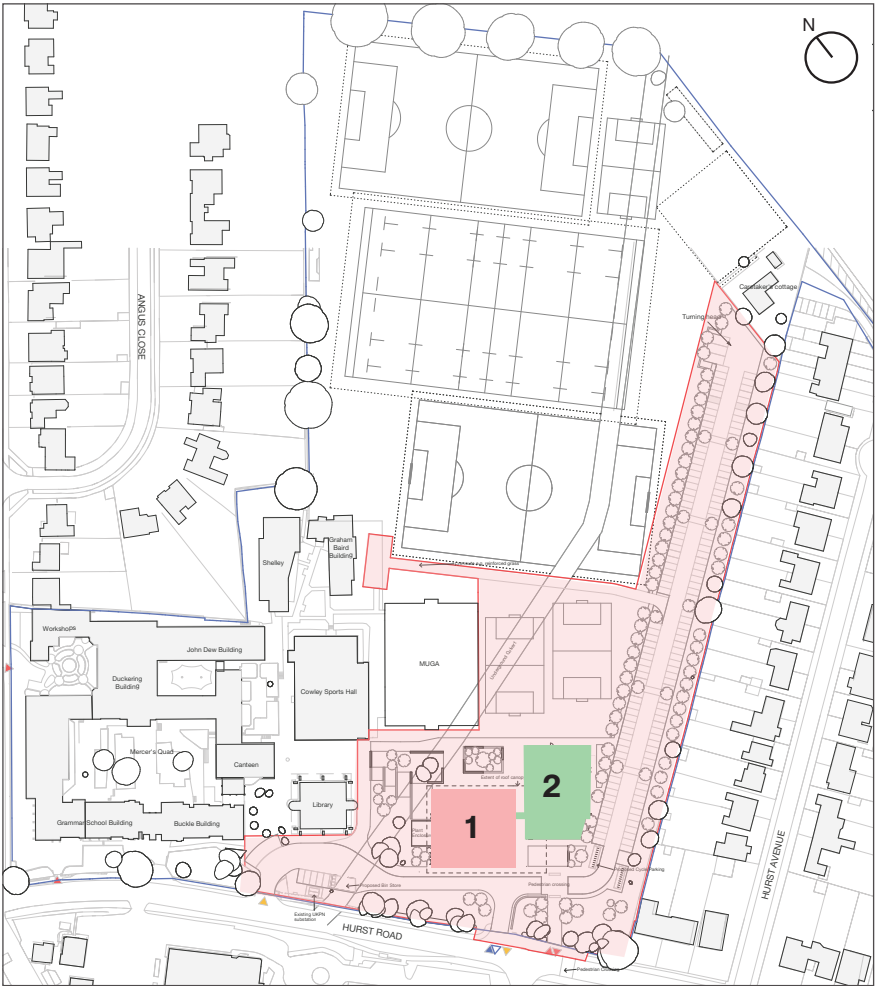
 Students

The table above presents the maximum occupancy levels for the Phase 1 and Phase 2 buildings; however, actual occupancy is expected to vary in practice.

In area, Phase 2 is approximately one third of Phase 1. Excluding support spaces, circulation and plant areas, the NIA is:

Phase 1 1,286 sq m

Phase 2 420 sq m



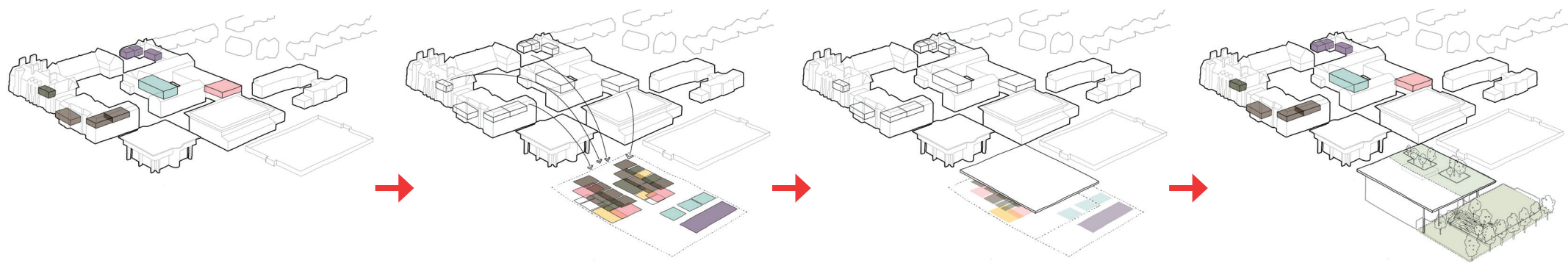
Proposed phases: 1-pink, 2-green

Design Proposal



4.1 STEM Under One Roof

At the final pre-application meeting, it was proposed that the STEM subjects are co-located in the new Technology Centre. Just as the Grammar School had an impact in its day, the College hopes that the new buildings acheive a lasting significance.



The existing facilities for science, technology, engineering and maths are scattered across the campus.

The STEM subjects will be co-located.

Physically and conceptually, the STEM subjects will be under one roof.

A green stepped landscape will rise up to the roof from the entrance court and relate the new buildings to the sports fields.

4.2 Proposed Site

Phase 1 of the new Technology Centre Plan includes:

- Construction of new 3 storey building.
- Creation of Arrival Plaza and Hurst Quad.
- New landscaping - both permanent and interim.
- Reconfiguring the 3 no 5-a-Side football pitches and their run off areas.
- Removal of existing car park.
- New car park with associated landscaping and lighting.
- New cycle parking.
- The introduction of a planted boundary between the pitches and the new car park. Refer to the Landscape section.
- The provision of a route for fire vehicle access to the Shelley and Graham Baird buildings.
- Reconfiguration of existing vehicular exit gate.
- Provision of new gate for cycles and pedestrians.
- Provision of new waste storage area.

Refer also to the Landscape and Access sections of this report.



Phase 2 of the new Technology Centre includes:

- New single storey building.
- Bridge link to Technology Building at first floor level.
- New landscaped steps.
- Completion of Arrival Plaza and Hurst Quad.
- New landscaping.

Refer also to the Landscape and Access sections of this report.



4.3 Internal Layout

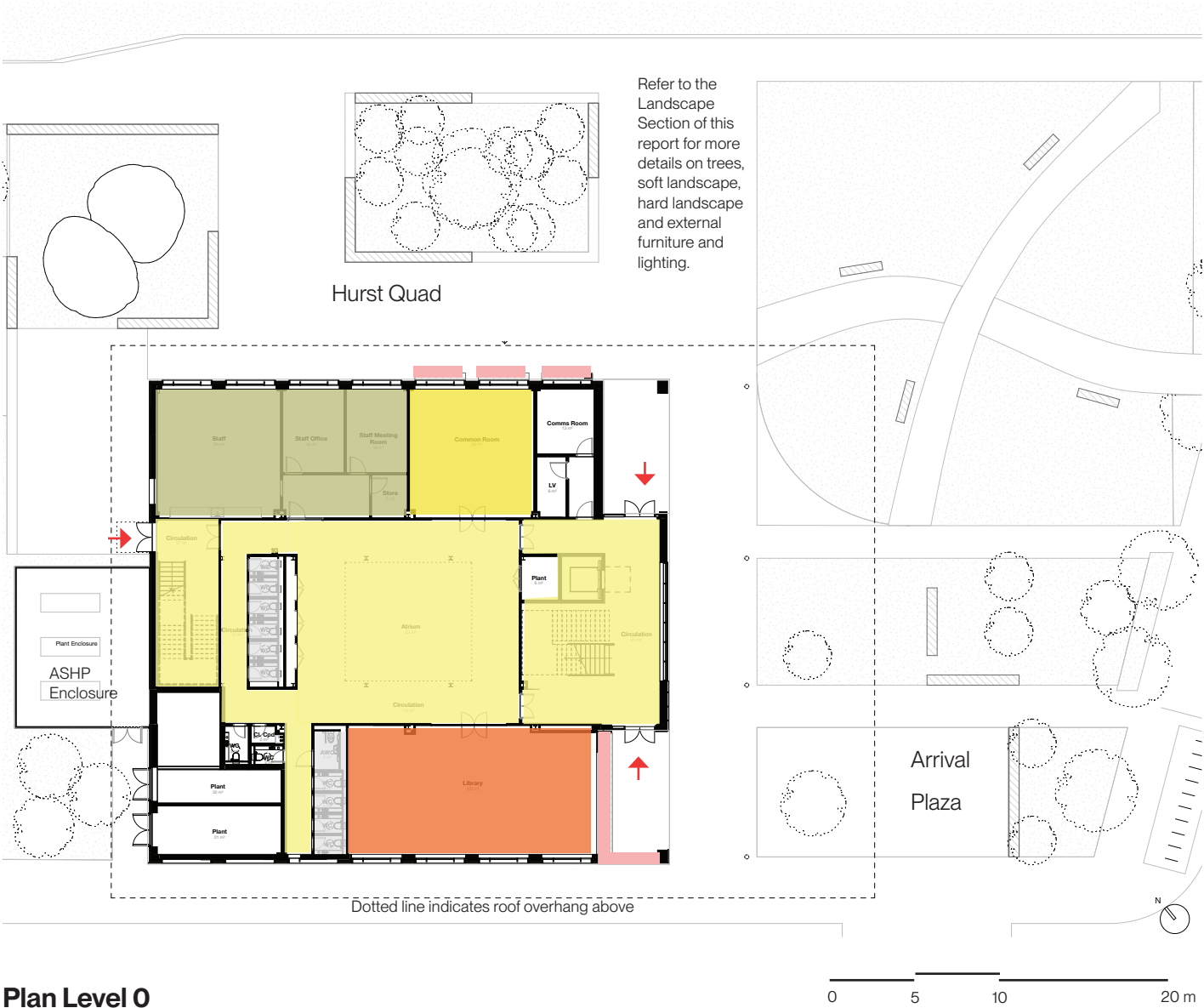
The internal layout of the Phase 1 building is generated by the 7.5m x 7.5 m module of a classroom, arranged around a central atrium. There are 2 main entrances in sheltered recesses on the new arrival plaza, and an entrance on the northwest elevation.

The ground floor will provide the following:

- Three entrances to accommodate large numbers of students arriving from Hurst Road and from within the campus.
- An atrium at the centre of the building for circulation, informal functions and formal gatherings.
- Library, common room, staff spaces and WCs, grouped around the atrium.
- Internal Plant areas.
- External bench seating next to building.
- External air source heat pump enclosure.

Refer also to the Landscape and Access sections of this report.

- ← Entrance
- Staff Spaces/Offices
- Circulation
- Common Room
- Library
- WC
- Bench seating

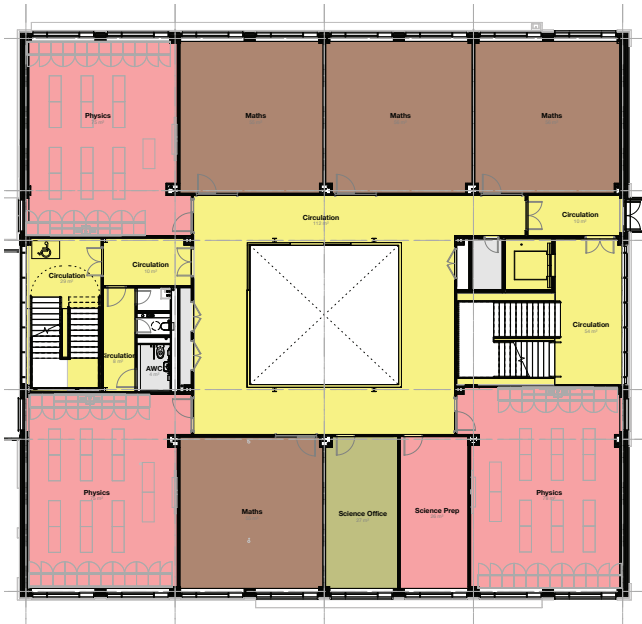


The upper levels of the Phase 1 building house teaching classrooms and labs organised around the central atrium.

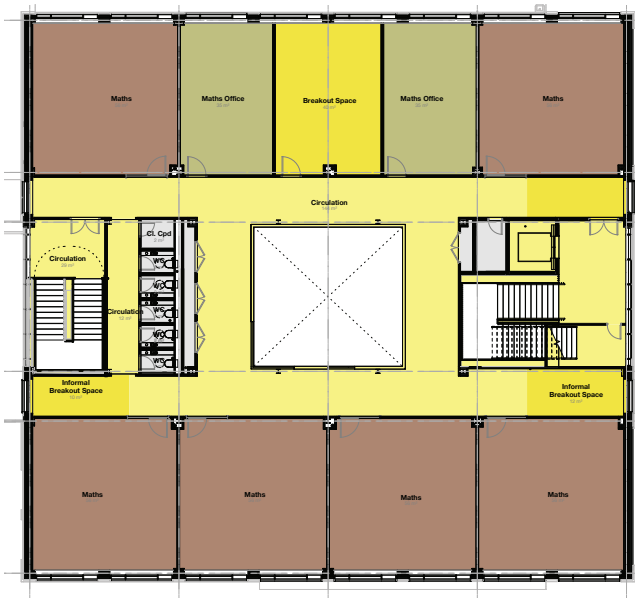
The first floor has the dry science labs (for physics and electronics), the science preparation space, a staff office and four maths classrooms.

The second floor has 6 maths classrooms and an office space, as well as informal breakout areas for study. Classrooms are 7.5 x 7.5 metres (55 sq m for 24 students) allowing them to be retrofitted for IT use in the future, and to accommodate an active learning style with a variety of configurations.

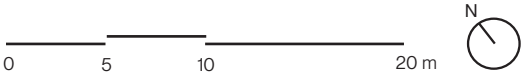
- Dry Science Labs
- Maths Classrooms
- Staff Spaces/Offices
- Circulation
- Common Room
- WC



Plan Level 1



Plan Level 2



Phase 2 sees the creation of a single storey building which further activates the Arrival Plaza and defines Hurst Quad, facing the sports fields.

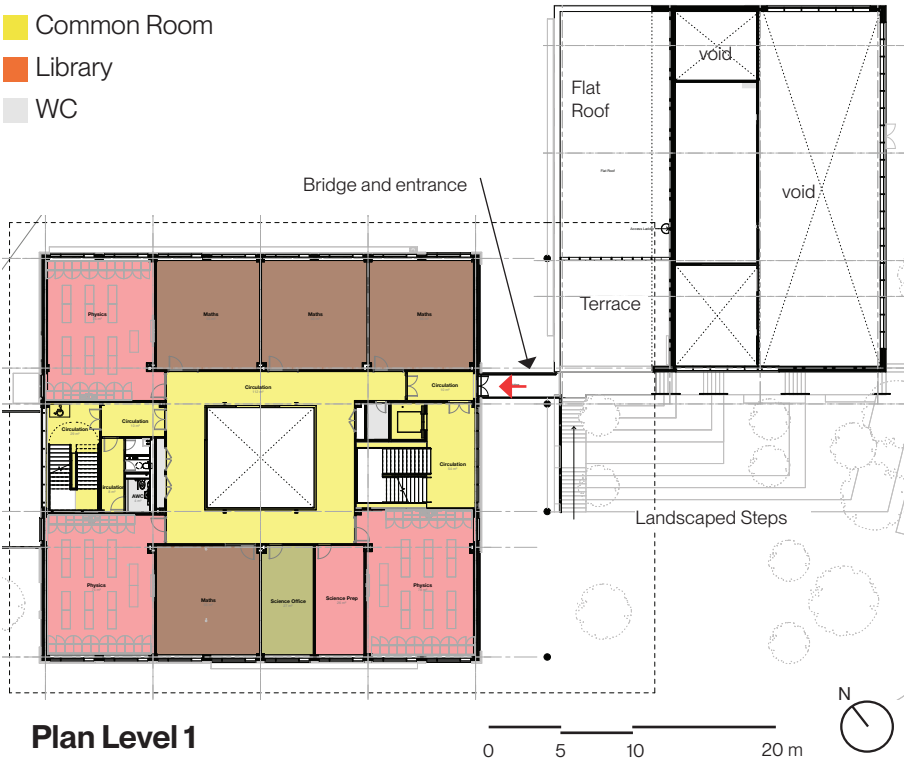
Landscaped steps rise up from the Arrival Plaza, providing a south facing gathering place and access to the upper level of the Phase 1 Technology Centre.



Ground Plan Level 0

The entrance of the Phase 2 building faces that of the Technology building, with both under the cover of the latter's roof canopy. The spaces are simply arranged off a central corridor, with IT classrooms facing the Technology building, and the workshop itself facing the car park.

- Dry Science Labs
- Engineering/ DT Classrooms + Support
- IT Classrooms
- Maths Classrooms
- Staff Spaces/Offices
- Circulation
- Common Room
- Library
- WC



Plan Level 1

A new bridge and first floor entrance will link the Arrival Plaza and landscaped steps directly to the classrooms of the Technology building.