

t	4	2009 WORKSHOP programme
---	---	-------------------------

Tomato shelter, London N17

construction week site brief

Project: Dismantable tomato shelter + rainwater drip design: research + prototype build

Address: Gospatrick Road, LONDON, N17 7EH

Client: Fede Calboli, 07787554580, f.calboli@imperial.ac.uk

Facilitators: Nick Newman & Georgia Laganakou with support from Sofie Pelsmakers

Description: Tomatoes can be grown in greenhouses and outdoors. However in wet summers, tomato crops risk being infected by a disease called 'tomato blight', killing the whole plant and its crop. This is caused by direct rain on the tomato plant. To avoid this disease for outdoor tomato growing, a shelter, which prevents rainwater directly hitting the plants, but still enabling natural irrigation, is required. Students are to research the best possible solution for the plant, based on 3 to 4 tomato plants in a row of 1m x 0.5 m width. An initial prototype of a dismantable shelter to be constructed, which includes rainwater drip from the 'roof' to water the tomatoes below without making the tomato plants wet. Shelter to be structurally sound and wind resistant as well as foldable/dismantable to be stored away during winter. Tomatoes usually need guiding and support – can this be combined in the shelter design?

Guide programme:

Groups selected - 24th September

Survey, briefing and design + enabling works - 24th - 29th September

Client meeting on site: **25th September – 10 am at the allotment site**

Construction: 30th September - 9th October

Initial tasks: Allocate the following key roles within the group

- * Team coordinator (assigning roles and coordinating tasks and programme)
- * Treasurer (responsible for maintaining the budget - approval for all expenditure)
- * Documenter (responsible for recording + documenting the whole project into a book)
- * Risk assessor (review proposals and identify any risks. Seek guidance if necessary)

Other tasks and roles should be allocated by the team coordinator

First stage: 24th - 29th September

- * Visit the site (send 2 or 3 people) and meet the client. Discuss the brief with them and record the requirements and aspirations. Agree a budget for materials.
- * Survey the site and produce survey drawings at a sensible scale.
- * Identify major construction materials required, so that these can be ordered in advance.
- * As a group, make at least two to three design proposals, for approval by the client

Materials orders via Travis Perkins

(or via receipts organised by yourselves – agree with Client)

Second stage: 30th September - 9th October

- * Ensure client approval before proceeding with construction works and a pre-start meeting with Nick Newman/Georgia Laganakou and other UEL staff as directed.
- * Sofie is available for queries and discussions through until completion. She is also available until October 8th to provide guidance and advice – book her for specific times and be punctual.

Presentations: 9th October

Students should assemble in the School Atrium for a 10 minute digital slideshow of the workshop and its conclusion to share the experiences with staff and each other.

Each student will be required to present their involvement in the workshop as part of their supporting studies module - gaining 20% of the final technical mark - submit this document/drawings as hard and PDF copy by 4pm on Monday 11th January 2010.

ADDITIONAL INFORMATION:

Site Pictures:



Location:



Precedents:



