

W2.1 MAPPING YOUR CHALLENGE

Three parts of the city park

DESIGNING A NEW CITY PARK

The local council has commissioned you to design a new city park. Your local town faces several challenges around water, including the problems you have previously learned about, and wants a design that solves these problems.

The local council wants a park that consists of three parts. You need to select one aspect that will be the focus for your design proposal:

1. A skatepark which can also deal with excess water flow from the park.
2. An area of lawn and plants which lacks water and is prone to drought.
3. The provision of drinking water stations around the park without access to mains water pipes.

PART 1 _____

The first part is a skate park. A skate park consists largely of concrete and tiles. As a result, it is difficult for water to drain away after heavy rainfall. The local council wants a solution for this. The requirements for the design of the skate park are:

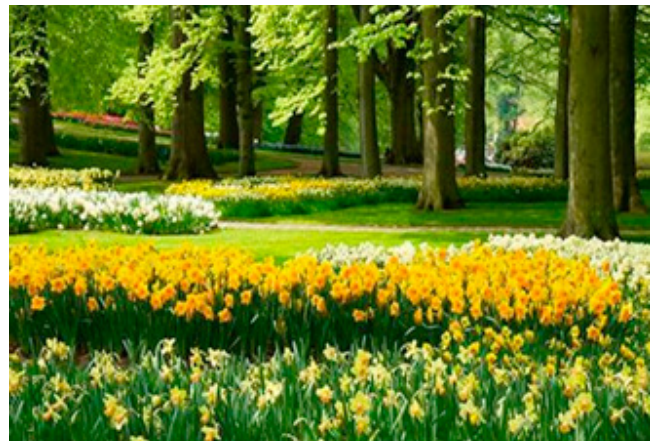
- Minimum surface area of 50 m².
- It should be able to drain water quickly and in a sustainable way.
- Fit the atmosphere and appearance of the whole park.
- Reduce noise so that neighbours are not disturbed.
- Be safe for users.



PART 2 _____

The second part consists of a lawn and gardens. This requires a lot of water to grow grass and plants during spring and summer. During spring and summer there is very little water available, so in this part of the park the challenge is to provide a sustainable source of water and reduce wastage of water. The requirements for the design of this section are:

- Contains a lawn and at least five plant species in the borders.
- Should be able to absorb, store and distribute water in an efficient and sustainable way.
- Minimum surface area of 30 m².
- Fit the atmosphere and appearance of the park.
- Provide footpaths for public access.



PART 3

The third part is a water drinking points. The local council would like to see several drinking water points in this section where visitors can access free drinking water. The local council has a lot of rainwater, a pond and groundwater, and wants to use this water for the water points. To achieve this, any water collected needs to be purified to be suitable for drinking. The requirements for the design of this section are:

- Contains a pond, a water treatment and drinking water points.
- Should be able to convert wastewater into drinking water.

