

NATURE-BASED SUSTAINABLE URBAN DRAINAGE SOLUTIONS

Rain Water Management Solutions for Schools

Rain Gardens

Rain Garden Planter

Breaking up paved spaces gives more space for rainwate absorption



Other City Nature-Based Solutions



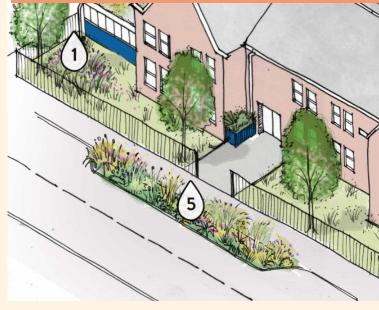
Rain Gardens:

- 1) Collect and absorb rainwater
- 2) Filter out pollutants and clean stormwater
- 3) Support pollinators and biodiversity

Rain Garden- Bioswale



Bioswales are often placed alongside roads, curbs, or cycle lanes



Carpark Solutions



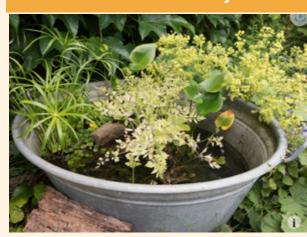


Raised curbs in carparks must have small gaps at low points regularly, to allow water to enter the rain garden.

Permeable Pavement



Mini Ponds Hold water. Improve biodiversity. **Cool down hot days**



Green Roofs Help Soak Up Water



Canopy Cover Slows Rain Drop Fall Rate = more time for the soil to absorb rainwater



Native Hedgerow drop fall rate





Green roof bin



Challenge: Design your Dream 'Spongy' School for Rainfall Resilience! What Nature-Based Solutions Suit Your School? Why? Where? How?

- 1) Create a map of your school's puddle and rainfall risk areas
- 2) Draw examples of where solutions could be placed.
- 3) Model a rain garden and create a timeline, what would you do first?

Rain Barrels

Collect and store rainwater

from the roof. Water re-use.



Helpful Native Plants and Trees















