

# SuDS

Sustainable Drainage Systems (SuDS) are natural methods of intercepting, slowing and holding water to reduce flooding, improve water quality, support biodiversity and increase public amenity.

## SuDS solutions

- Installing a water butt
- Making a rain garden
- Having a permeable drive
- Growing a green roof
- Keeping plants and lawns in our gardens
- Having permeable surfaces like gravel instead of paving, decking or concrete
- Growing real lawns and not artificial grass



## Green roofs

Green roofs are flat, or gently sloped roofs, covered in plants. What do you think are their advantages?

Find out about the differences between natural drainage and traditional drainage and list them here.

### Natural drainage

### Traditional drainage

## Design your own green roof!

- What plants would you grow there?
- What animals would you hope to attract?
- What do you think are the benefits of a green roof?
- Can you think of any disadvantages?

Do some research, make notes and then draw your design with labels, or produce a presentation.

You can find out more about green roofs by visiting these websites:

[www.livingroofs.org](http://www.livingroofs.org)

[www.renewableenergyhub.co.uk](http://www.renewableenergyhub.co.uk)

This diagram demonstrates the impacts of urbanisation on a catchment by reducing its permeability and increasing surface water runoff. This reduces opportunities for water to be managed naturally with the potential for pollution and localised flooding when the piped systems cannot cope with rainfall.

