

Activity Sheet: 1 - Navigating the Pathway of Pollution

1 Mapping Your Treatment Chain

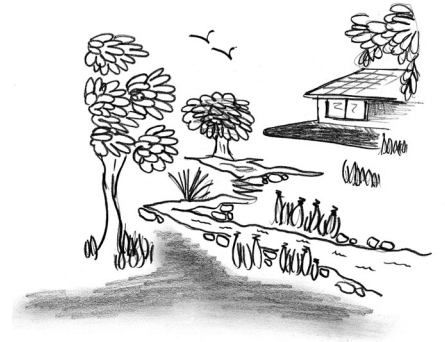
Aim:

1. To UNDERSTAND the treatment chain from the home to the Lake.
2. To IDENTIFY contributors to sedimentation along the path.

Equipment:

You will need:

1. Paper
2. Pencil and marker pen



Method:

- Map the path of urban run-off and storm-water run-off near your own home.
- Include things like guttering and drains, wetland areas, sediment traps and other points where stormwater is managed before it enters the Lake.
- Test the water quality of the main entry point into the Lake and compare with one other point in your local area. Conduct in-class brain-storm session.

2 Calculating Run-off Areas

Aim:

To identify the level of surface run-off in your own home.

Method:

- Calculate the following
 1. Hard surface areas eg. Concrete paths, roofed areas, driveways and paved areas on your block of land.
 2. Areas of absorption eg. Grass, garden areas on your block of land.
- Now calculate the entire surface area of your block of land.
- Express areas of hard surface as a % of the total area of your block of land.

Notes:

- Students should be able to identify the differences between hard surfaces and surfaces which are able to absorb stormwater run-off.
- Activities highlight the high amount of hard surfaces prone to increase stormwater run-off in urban areas.
- Additional activity: Teachers could run brainstorm of other alternatives to hard surface areas in the students' own home.