



TOOL 4



Tree Planting for Hillside Erosion Prevention



Title : Tree Planting for Hillside
Erosion Prevention

Developed by : International Finance
Corporation

Topics : Erosion

Website : <https://openknowledge.worldbank.org/server/api/content/bitstreams/6397c98e-ca71-5cd4-84e5-0573ed9af4e4/content>

Description

By planting and tending tree seedlings or native grass seed, the tool encourages students to participate in practical conservation efforts, while learning about erosion in their local environment.

Duration

not specified

Resources needed

Garden tools, Bucket of water, Tree seedlings or native grass seed, Research materials to learn about native tree plant species.

Age

3 to 5 years old
5 to 11 years old

Expected outcomes

The tool educates students about erosion, a geological process, which can lead to loss of arable land, clogged and polluted waterways and increased flooding. Besides the knowledge acquired throughout the experiment, the students can help protect their local environment, leaving them with a feeling of community and accomplishment.

Climate change

This tool addresses the topic of climate change by focusing on the role of vegetation in erosion prevention.

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Risk prevention

By actively participating in tree planting or seeding grasses, students contribute to the establishment of natural barriers against erosion.

Management

The tool needs special management by a teacher or specialist, since the activity requires prior organisation and supervision during the tree planting process.

Others

Relevance to CRISEPAC Objectives

The tool helps to prevent the consequences of climate change while educating students about erosion. In addition, tree planting improves air quality and promotes wildlife.

Possible adaptations

Organise a class to talk about the benefits of tree planting and make the learning process dynamic by suggesting that students plant trees in a relevant area of their school.

Weaknesses

The teacher must organise the class before the activity, identifying the place where the students will plant the trees to prevent erosion.

Strengths

The activity empowers students to make a positive impact on their local environment.

Methodologies

Have students observe how plants can prevent erosion by pouring a bucket of water on a slope of bare dirt and a slope with grasses. Discuss together how soil washes away on the bare slope, but grass roots hold soil in place and keep it from washing away.

Students can help protect a hillside near their school by planting and tending tree seedlings or native grass seed. Older children can research trees, shrubs or grasses that are native to their area and help decide which species should be included in the project.

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