



engineers without borders
ingénieurs sans frontières

UGANDA



General

Area:	241,000 km ²	Population:	21,778,000
		Urban:	14%
		Rural:	86%
Main Language:	English	Growth Rate:	2.8% per year

Water Resources

Rainfall:	1,180 mm	Total water use	
Total water withdrawals:	20 m ³ /cap/year	Domestic:	32%
		Industrial:	8%
		Agricultural:	60%

Health

Life expectancy:	39.6 years
Infant mortality rate:	107 infant deaths/1000 live births
Child mortality rate:	173 child deaths/1000 live births

Literacy

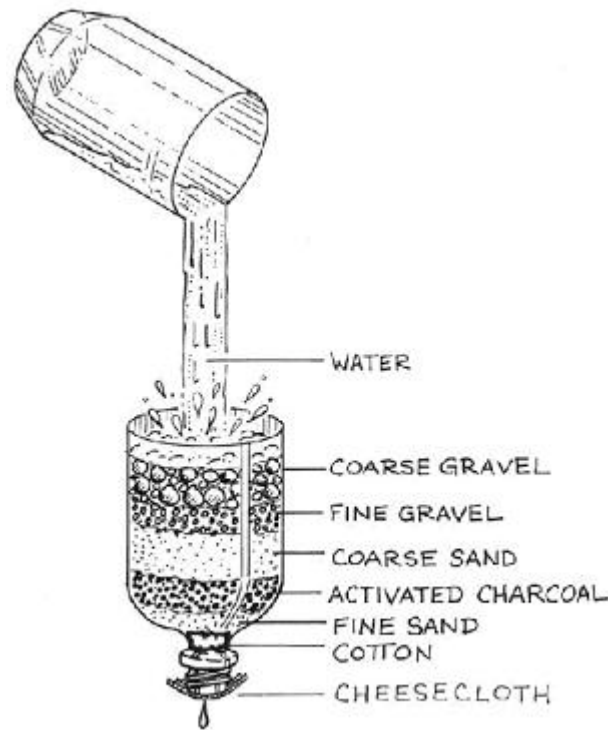
Adult literacy:	66.1% of population age 15 and above
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Economy

GDP per capita (PPP US\$)	\$1,167
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Instructions

1. Cut a 1-cm wide strip of cotton cloth and place it around the neck of the cut plastic bottle, then place a piece of cheese cloth over the neck of the bottle and secure it with a rubber band.
2. Pour a 1-cm layer of fine sand over the cotton cloth plug, followed by 1-cm of activated charcoal, 1-cm of fine gravel, and coarse sand.
3. Clean the filter and carefully pour 1-litre of clean water (over a bucket).
4. Test the filter by pouring some of the dirty water through the filter.



Cost of Materials

Activated Charcoal	\$50/cup	Rubber Band	\$5 each
Cheesecloth	\$5/square	Sand, Coarse	\$20/cup
Cotton	\$5/ball	Sand, Fine	\$20/cup
Gravel, Coarse	\$10/cup	Water, Clean	\$10/litre
Gravel, Fine	\$10/cup		