



engineers without borders
ingénieurs sans frontières

GHANA



General

Area:	239,000 km ²	Population:	20,213,000
		Urban:	38%
		Rural:	62%
Main Language:	English	Growth Rate:	2.7% per year

Water Resources

Rainfall:	2,000 mm	Total water use	
Total water withdrawals:	35 m ³ /cap/year	Domestic:	35%
		Industrial:	13%
		Agricultural:	52%

Health

Life expectancy:	60 years
Infant mortality rate:	66 infant deaths/1000 live births
Child mortality rate:	101 child deaths/1000 live births

Literacy

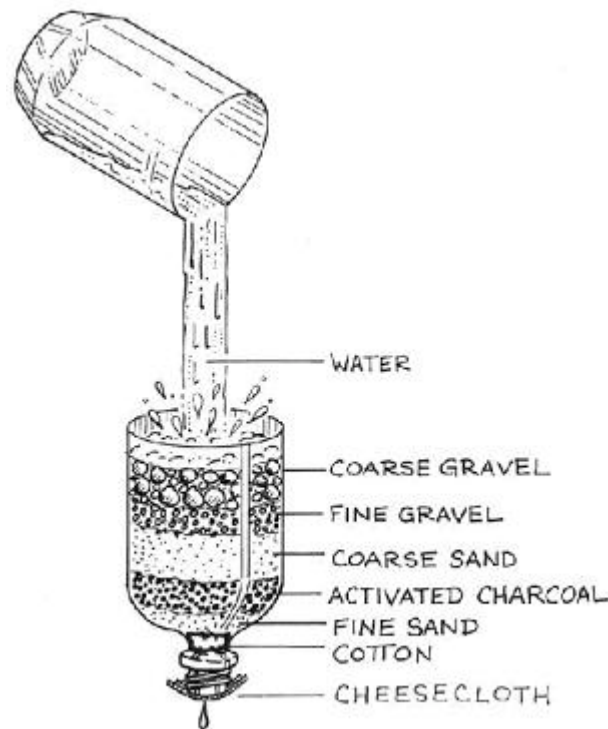
Adult literacy:	70.3% of population age 15 and above
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Economy

GDP per capita (PPP US\$)	\$1,881
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Instructions

1. Cut a 1-cm hole in the neck of the cut bottle, cover the neck of the bottle with a piece of cheese cloth secured with a rubber band.
2. Pour a 1-cm layer of fine sand over the cotton plug, followed by 1-cm of coarse sand, 1-cm of fine sand, fine gravel, and 1-cm of coarse gravel.
3. Test the filter by carefully pouring through 1-litre of clean water (over a glass).
4. Place the filter over a plastic cup. Test your filter by pouring half 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		