

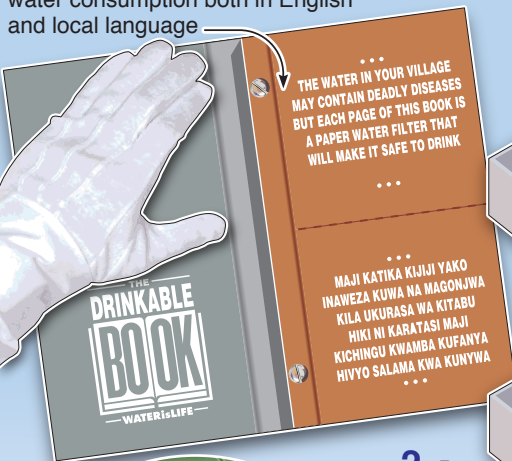
Book that can literally save lives

Each pull-out page of the “Drinkable Book” contains nanoparticles of silver that can kill waterborne bacteria and purify up to 100 litres of water.

In trials, the paper successfully removed more than 99% of bacteria

Book comes printed with guidelines for safe water consumption both in English and local language

1. Tear out a page, insert it in filter holder issued with book



2. Pour dirty water through filter

3. Silver ions — positively-charged particles — interfere with bacterium's metabolism, producing extremely toxic substances called **reactive oxygen species (ROS)**



Bacteria cell wall

4. ROS causes damage inside cell, harming DNA, proteins and membrane that surrounds cell. Bacterium dies

