Preparation
- Split your group into teams. Each team will need a container to transport their water: either a bucket with hole(s), plant pot, or sieve, depending on the ability of the children and the level of challenge required.
- To ensure it is fair, each team should have a similar container. You could choose to just put one hole in, or various holes depending on the level of challenge you require. Think about the strength of the children, the amount of water and the size of the containers you are using. Water is very heavy to carry; 1 litre of water weighs 1kg!

Challenge Outline
- Pretend that you are in a third world village who must collect drinking water from a well, and transport it back to their village in a container to the village water store. Unfortunately, their container is very old and has a hole in it.
- Each group has (or has to measure out using a measuring jug) a specified quantity of water, transport it in their container a certified distance, and pour it into their village water container (measuring jug) back in their village. The group which manages to transport the most water wins the challenge.
- You may wish to include the group on devising rules to make it a fair test, or give them rules beforehand, (e.g. you could limit them to only travel once, or have the opportunity to re-fill their container & try again to facilitate evaluation and improvement.)
- The group are to work together to come up with a solution to be able to transport as much water as possible back to their village.

Possible Solutions
- The group should come up with a solution to plug the holes, e.g. by using leaves, or other members of the group putting their fingers over the hole(s), etc.