

Water supply challenge – ideas for creating a brief

By Shona Scheuerl, Martin Crapper and Bob Hyde

These are just some ideas about how a more detailed challenge brief could be developed.

The details below are intended as examples only and could of course be varied to reflect different scenarios.

What volume of water will be needed to supply this community? What rate of flow will be required?

Community details	
Number of houses	
Average number of persons per household	
Water per head per day	

Where is the community? What might be the effect of topography and environment on plans?

- A map (imaginary or authentic) could be provided to allow topographical and environmental issues to be considered.

What is the quality of the raw water? What are the implications of this for the cleaning processes adopted?

- Laboratory prepared 'raw' water samples could be made up for learners to explore.

What pumps will be required? How will the pumps be powered?

- Designs could be asked for where learners demonstrate their understanding and ideas for how micro generation could be incorporated.

If the water has to be brought a distance what system will be used to transport the water?